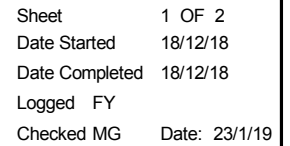


This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
 ※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)



This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
 ※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)

Project Additional Site Investigation
Location 182-198 Victoria Road, Marrickville, NSW
Position Refer to Figure 2
Job No. E24098.E03
Client Toga Constructions NSW Pty Ltd

Surface RL 2.56 m AHD
Contractor BG Drilling
Drill Rig Tight Access Rig
Inclination -90°

Sheet 2 OF 2
Date Started 18/12/18
Date Completed 18/12/18
Logged FY Date: 23/1/19
Checked MG Date: 23/1/19

Drilling					Sampling		Field Material Description				
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC	-	GWNE	10				-	SANDSTONE; fine to medium grained, pale grey, with iron staining, no odour.			BEDROCK
			11								
			12	12.18							
			13					Hole Terminated at 12.18 m Target depth reached.			
			14								
			15								
			16								
			17								
			18								
			19								
			20								

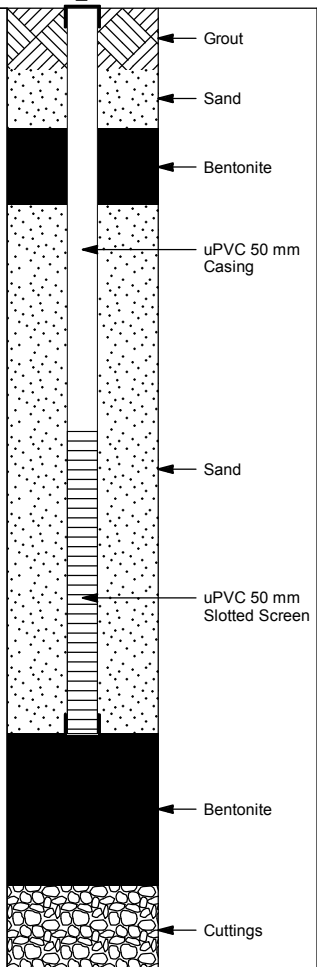
This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)

Project Additional Site Investigation
 Location 182-198 Victoria Road, Marrickville, NSW
 Position Refer to Figure 2
 Job No. E24098.E03
 Client Toga Constructions NSW Pty Ltd

Surface RL 3.30 m AHD
 Contractor Geosense Drilling Pty Ltd
 Drill Rig Hanjin D&B 8D
 Inclination -90°

BOREHOLE: BH9M

Sheet 1 OF 1
 Date Started 19/12/18
 Date Completed 19/12/18
 Logged BL
 Checked MG Date: 23/1/19

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	PIEZOMETER DETAILS	
												ID	Static Water Level
												BH9M	
AD/T		▽	0	3.30	BH9M_0.2-0.3 ES PID = 1.9 ppm			-	FILL: Clayey SAND; medium grained, dark grey, with gravel and brick fragments, no odour.	M			
			0.50	2.80	BH9M_0.7-0.8 ES PID = 2.1 ppm			CI	Silty CLAY; medium plasticity, grey-brown, trace ash and rootlets, no odour.				
			1	1.40	BH9M_1.4-1.5 ES PID = 1.8 ppm				From 1.4 m, red, mottled grey, with ironstone gravel.				
			1.90	1.70				From 1.7 m, medium to high plasticity, grey, trace ironstone gravel, grading into extremely weathered sandstone.	M				
			2	1.60									
			3										
			4	4.00	BH9M_3.5-3.6 ES								
			-0.70					SC	Clayey SAND; orange-grey, no odour.	M			
				4.85	BH9M_4.5-4.6 ES								
			-1.55						SANDSTONE; medium grained, orange-grey, no odour.				
			6	6.40									
			7						Hole Terminated at 6.40 mBGL; Target depth reached.				
			8										
			9										
			10										

This borehole log should be read in conjunction with El Australia's accompanying standard notes.
 ※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)

Project Additional Site Investigation
Location 182-198 Victoria Road, Marrickville, NSW
Position Refer to Figure 2
Job No. E24098.E03
Client Toga Constructions NSW Pty Ltd

Surface RL 3.38 m AHD
Contractor -
Drill Rig Hand Auger
Inclination -90°

Sheet 1 OF 1
Date Started 17/12/18
Date Completed 17/12/18
Logged MG
Checked MG Date: 23/1/19

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
HA	-	GWNE	0	0.14	BH10_0.3-0.4 ES			-	CONCRETE; 135 mm thick.	-		CONCRETE HARDSTAND
			3.25									
			0.40									
									FILL: Silty SAND; fine to coarse grained, brown-dark grey, with sub-angular to angular gravel, with trace metal, burnt wood fragments, plastic and brick fragments, no odour.	M	-	FILL
									Hole Terminated at 0.40 mBGL; Refusal on large brick fragments.			
			1									
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)

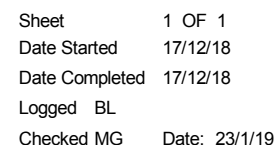
Project Additional Site Investigation
Location 182-198 Victoria Road, Marrickville, NSW
Position Refer to Figure 2
Job No. E24098.E03
Client Toga Constructions NSW Pty Ltd

Surface RL 2.38 m AHD
Contractor -
Drill Rig Hand Auger
Inclination -90°

Sheet 1 OF 1
Date Started 17/12/18
Date Completed 17/12/18
Logged MG
Checked MG Date: 23/1/19

Drilling				Sampling		Field Material Description						
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
HA	-	GWNE	0	0.12	BH11_0.2-0.3 ES PID = 0.9 ppm			-	CONCRETE; 120 mm thick.	-	-	CONCRETE HARDSTAND
			0.30	-				FILL: SAND; fine to medium grained, light brown-yellow, no odour. Hole Terminated at 0.30 mBGL; Target depth reached.	M	-	FILL	
			1									
			2									
			3									
			4									
			5									
			6									
			7									
			8									
			9									
			10									

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)



This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
 ※RI values extrapolated from survey plan (True North surveys. Ref: 8333DU. Dated: 01/09/2016)

This borehole log should be read in conjunction with EI Australia's accompanying standard notes.
 ※RL values extrapolated from survey plan (True North surveys, Ref: 8333DU, Dated: 01/09/2016)

Appendix G – Field Data Sheets

CALIBRATION CERTIFICATE FOR PHOTO IONISATION DETECTOR

Instrument: Mini RAE 3000

Serial Number: 592-906667 - EI PID02 ☒ OR 592-901345 - EI PID03 ☐

Instrument Conditions: Good

Calibration gas species: Isobutylene.

Calibration gas concentration: 100 ppm

Gas bottle number: lot 218055 of 5

This PID has been calibrated to Isobutylene gas with the span concentration displayed as

99.9 ppm at 100 ppm span setting (allowable range +/-10ppm from span setting).

The PID is initially zero calibrated in fresh air.

Remaining gas in bottle: 200 psi (if reading is <250 psi, notify Equipment Manager to arrange new gas bottle order)

The above detector was calibrated in accordance with manufacturer's specifications.

Date: 17/12/18

Time: 8am

Appendix H – Chain of Custody and Sample Receipt Forms

Sheet <u>1</u> of <u>4</u>					Sample Matrix										Analysis										Comments
Site: <u>182-198 Victoria Road,</u> <u>Morricksville, NSW</u>				Project No:																					HM^A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM^B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory: Eurofins Environment Testing Aust. P/L 6 / 16 Mars Road, SYDNEY NSW 2066 P: 02 9900 8400				<u>E24098</u>																					
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM ^A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM ^A /TRH/BTEX/PAHs	HM ^A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM ^B / PAH		
			Date	Time																					
BH2_0.2-0.3		2xJ, ZLB	17-12-18	AM/AM		X		X				X							X					Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol	
BH2_0.7-0.8																								LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____	
BH2_1.3-1.4																									
BH2_1.8-1.9								X				X													
BH3M_0.3-0.4							X				X							X							
BH3M_1.0-1.1																									
BH3M_1.4-1.5																									
BH3M_1.7-1.8								X				X													
BH3M_2.5-2.6		1xJ																							
BH3M_3.7-3.8																									
BH3M_4.7-4.8																									
BH3M_5.7-5.8																									

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): [REDACTED]

Received by (Eurofins): [REDACTED]

Report with EI Waste Classification Table ☐

Sampler's Comments:
 Jars → 1 with teflon seal
 1 without teflon for PFAS



Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au

COC March 2018 FORM v.4 - SGS

IMPORTANT:
 Please e-mail laboratory results to: lab@eiaustralia.com.au

633990

Sheet <u>2</u> of <u>4</u>					Sample Matrix		Analysis														Comments		
Site: <u>182-198 Victoria Road,</u> <u>Marrickville, NSW</u>			Project No: <u>E24098</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Phenols pH / pH _{POC}	TCLP HM B / PAH	HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol	
Sample ID	Laboratory ID	Container Type	Sampling																				
			Date	Time																			
BH3M-6-7-65		1xJ	17-12-18	AM/PM		X																	
BH7-0-2-0-3		2xJ, 2LB	18-12-18					X				X						X					
BH7-0-6-0-7		↓																					
BH7-1-4-1-5		↓							X											X			
BH7-2-4-2-5		1xJ																		X			
BH7-3-1-3-2		↓																		X			
BH7-4-0-4-1		↓																		X			
BH10-0-3-0-4		2xJ 2LB	17-12-18					X				X						X	X				
BH11-0-2-0-3		↓	17-12-18																				
BH12-0-0-0-1		↓						X				X						X					
BH12-0-7-0-8		↓							X			X											
BH12-1-2-1-3		1xJ																					

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):

Received by (Eurofins):

Sampler's Comments:



Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

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Please e-mail laboratory results to: lab@eiaustralia.com.au

#633990

Sheet <u>3</u> of <u>4</u>					Sample Matrix			Analysis													Comments	
Site: <u>182-198 Victoria Road,</u> <u>Marrickville NSW</u>			Project No: <u>E24098</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OCPI/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	SPOCAS	PFAS	<u>pH / pT / reactive</u>	TCLP HM B / PAH	HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
Sample ID	Laboratory ID	Container Type	Sampling																			
			Date	Time																		
BH12-2.3-2.4		1x J	17-12-18	AM PM		X																
BH12-2.9-3.0		1x J																				
BH13-0.3-0.4		2x J ZLB						X				X						X				
BH13-0.7-0.8		2							X				X									
BH14m-0.2-0.3			18-12-18					X				X						X				
BH14m-0.7-0.8																						
BH14m-1.2-1.3									X			X							X			
BH14m-1.5-1.9		1x J																	X			
BH14m-2.9-3.0																			X			
BH14m-3.8-3.9																			X			
QDI																						
QRB																						

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): [REDACTED]

Received by (Eurofins): [REDACTED]

Report with EI Waste Classification Table ☐

Sampler's Comments:



Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au

COC March 2018 FORM v4 - SGS

IMPORTANT:
 Please e-mail laboratory results to: lab@eiaustralia.com.au

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Sheet <u>4</u> of <u>4</u>					Sample Matrix			Analysis														Comments		
Site: <u>182-198 Victoria Rd,</u> <u>Marrickville NSW</u>				Project No: <u>E24098</u>																			HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel	
Laboratory:		Eurofins Environment Testing Aust. P/L 6 / 16 Mars Road, SYDNEY NSW 2066 P: 02 9900 8400																						
Sample ID	Laboratory ID	Container Type	Sampling		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM B / PAH	
			Date	Time																				
QRI										X														Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
QTB1											X													
QTS1											X													
																								LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):

Received by (Eurofins):

Sampler's Comments:
 QTB1 - Trip blank
 QTS1 - Trip Spike



Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC March 2018 FORM v.4 - SGS

IMPORTANT:
 Please e-mail laboratory results to: lab@eiaustralia.com.au

633990

Sample Receipt Advice

Company name: **EI Australia**
Contact name: **- SRA/RESULTS**
Project name: **182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **10 Day**
Date/Time received: **Dec 20, 2018 9:45 AM**
Eurofins | mgt reference: **633990**

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).

Notes

Some PFAS received in glass Jar, it may affect analysis. ASS Bags not received for samples BH7_2.4-2.5, BH7_3.1-3.2, BH7_4.0-4.1, BH14M_1.8-1.9, BH14M_2.9-3.0, BH14M_3.8-3.9, jar subsampled.

Contact notes

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

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to - SRA/RESULTS - lab@eiaustralia.com.au.

#684500

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis														Comments		
Site: 182-198 Victoria Road, Marrickville, NSW				Project No: E24098		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHS OC/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHS	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	phenols	TCLP HM B / PAH	HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
Sample ID	Laboratory ID	Container Type	Sampling																				
			Date	Time																			
BH6M-0.2-0.3		2xJ, ZLB	19/12/18	AM		X		X					X							X	X		
BH6M-0.7-0.8									X				X							X			
BH6M-1.2-1.3									X				X							X			
BH6M-1.7-1.8									X				X							X			
BH9M-0.2-0.3								X					X						X				
BH9M-0.7-0.8																							
BH9M-1.4-1.5		1xJ																					
BH9M-3.5-3.6																							
BH9M-4.5-4.6																							
BH1M-0.2-0.3		2xJ ZLB	20/12/18	AM		X		X					X						X				
BH1M-0.7-0.8									X				X										
BH1M-1.7-1.8																							

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): [REDACTED] **Received by (Eurofins):** [REDACTED]

Report with EI Waste Classification Table ☐

Sampler's Comments:



Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC March 2018 FORM v.4 - SGS

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

Sample Receipt Advice

Company name: **EI Australia**
Contact name: **Micaela Green**
Project name: **182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **10 Day**
Date/Time received: **Dec 20, 2018 9:45 AM**
Eurofins | mgt reference: **634500**

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.
- ☐ 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:

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Micaela Green - micaela.green@eiaustralia.com.au.

Enviro Sample NSW

From: Micaela Green - EIAustralia <micaela.green@eiaustralia.com.au>
Sent: Monday, 14 January 2019 4:25 PM
To: Enviro Sample NSW
Cc: Asim Khan; Benjamin Aggar - EIAustralia; Dr Warwick Hayes - EI Australia
Subject: RE: Eurofins | mgt Test Results - Report 633990 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)
Attachments: 633990-W_report.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Eurofins Team,

Could I please request the following TCLP test to be run in regards to the attached Report (633990):

- BH2_0.2-0.3 for lead

Thank you,

Micaela Green | Environmental Scientist



T: 02 9516 0722 M: 0435 297 482
E: micaela.green@eiaustralia.com.au

Suite 6.01, 55 Miller Street, Pyrmont, NSW 2009
www.eiaustralia.com.au



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From: AsimKhan@eurofins.com [<mailto:AsimKhan@eurofins.com>]
Sent: Wednesday, 9 January 2019 8:34 PM
To: Laboratory Results - EIAustralia
Subject: Eurofins | mgt Test Results - Report 633990 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

Please find attached results for your project in the subject header.

Kind regards,

Asim Khan
Analytical Services Manager

Eurofins | mgt

Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA

Phone : +61 2 9900 8432

Email : AsimKhan@eurofins.com

Website : www.eurofins.com.au/environmental-testing

[EnviroNote 1081 - Christmas Closure 2018](#)

[EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations](#)

EnviroNote 1081 – for Eurofins | mgt Christmas Shutdown Dates, click [here](#)

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Sample Receipt Advice

Company name: **EI Australia**
Contact name: **Micaela Green**
Project name: **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **1 Day**
Date/Time received: **Jan 14, 2019 4:25 PM**
Eurofins | mgt reference: **635669**

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.
- ☐ 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:

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Micaela Green - micaela.green@eiaustralia.com.au.

Enviro Sample NSW

From: Micaela Green - EIAustralia <micaela.green@eiaustralia.com.au>
Sent: Monday, 14 January 2019 4:21 PM
To: Enviro Sample NSW
Cc: Nibha Vaidya; Benjamin Aggar - EIAustralia; Dr Warwick Hayes - EI Australia
Subject: RE: Eurofins | mgt Draft Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)
Attachments: 634500-S_report.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Eurofins Team,

Could I please request the following TCLP tests to be run in regards to the attached Report (634500):

- BH6M_0.2-0.3 for Lead
- BH9M_0.2-0.3 for lead and the full PAH Sweep
- BH1M_0.2-0.3 for Benzo(a)pyrene

Could I also get a confirmation for following results returned from BH9M_0.2-0.3:

- Carcinogenic PAHs (as B(a)P TEQ) = 74
- Benzo(a)pyrene = 52
- Total PAHS = 819.1

Thankyou,

Micaela Green | Environmental Scientist



T: 02 9516 0722 **M:** 0435 297 482
E: micaela.green@eiaustralia.com.au

Suite 6.01, 55 Miller Street, Pyrmont, NSW 2009
www.eiaustralia.com.au



EI Australia is a proud member of the Australian Contaminated Land Consultants Association and the Australian Geomechanics Society.

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From: NibhaVaidya@eurofins.com [<mailto:NibhaVaidya@eurofins.com>]
Sent: Thursday, 10 January 2019 11:36 AM

To: Laboratory Results - EIAustralia

Cc: Micaela Green - EIAustralia

Subject: Eurofins | mgt Draft Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

Dear Micaela,

Please find attached all available results for your project in the subject header.

Kind Regards,

Nibha Vaidya

Analytical Services Manager

Eurofins | mgt

Unit F3, Parkview Building

16 Mars Road

LANE COVE WEST NSW 2066

AUSTRALIA

Phone: +61 2 9900 8415

Mobile: +61 499 900 805

Email: NibhaVaidya@eurofins.com

Website: environment.eurofins.com.au

[EnviroNote 1081 - Christmas Closure 2018](#)

[EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations](#)

EnviroNote 1081 – for Eurofins | mgt Christmas Shutdown Dates, click [here](#)

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Sample Receipt Advice

Company name: **EI Australia**
Contact name: **Micaela Green**
Project name: **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **1 Day**
Date/Time received: **Jan 14, 2019 4:21 PM**
Eurofins | mgt reference: **635668**

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.
- ☐ 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:

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Micaela Green - micaela.green@eiaustralia.com.au.

Enviro Sample NSW

From: Nibha Vaidya
Sent: Monday, 21 January 2019 2:58 PM
To: Enviro Sample NSW; COC NSW
Subject: 2 DAY TAT - FW: Eurofins | mgt Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

Follow Up Flag: Follow up
Flag Status: Completed

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Micaela Green - EIAustralia [mailto:micaela.green@eiaustralia.com.au]
Sent: Monday, 21 January 2019 2:54 PM
To: Nibha Vaidya
Subject: RE: Eurofins | mgt Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

EXTERNAL EMAIL*

48 Hr turnaround please,

Thanks,

Micaela Green

From: Nibha Vaidya [mailto:NibhaVaidya@eurofins.com]
Sent: Monday, 21 January 2019 2:25 PM
To: Micaela Green - EIAustralia
Subject: RE: Eurofins | mgt Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

No worries Micaela,

What turnaround will you require?

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Micaela Green - EIAustralia [mailto:micaela.green@eiaustralia.com.au]
Sent: Monday, 21 January 2019 1:47 PM
To: Nibha Vaidya
Cc: Enviro Sample NSW
Subject: RE: Eurofins | mgt Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

EXTERNAL EMAIL*

Hi Nibha,

Could I please request additional TCLP analysis for the following:

- BH7_1.4-1.5 for Nickel
- BH6M_1.2-1.3 for Nickel

Kind Regards,

Micaela Green | Environmental Scientist



T: 02 9516 0722 **M:** 0435 297 482
E: micaela.green@eiaustralia.com.au

Suite 6.01, 55 Miller Street, Pyrmont, NSW 2009
www.eiaustralia.com.au



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From: NibhaVaidya@eurofins.com [mailto:NibhaVaidya@eurofins.com]
Sent: Monday, 14 January 2019 5:40 PM
To: Laboratory Results - EIAustralia
Cc: Micaela Green - EIAustralia
Subject: Eurofins | mgt Test Results - Report 634500 : Site 182-198 VICTORIA ROAD MARRICKVILLE NSW (E24098)

Dear Micaela,

Please find attached final results for your project in the subject header.

Kind Regards,

Nibha Vaidya
Analytical Services Manager

Eurofins | mgt

Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA

Phone: +61 2 9900 8415

Mobile: +61 499 900 805

Email: NibhaVaidya@eurofins.com

Website: environment.eurofins.com.au

[EnviroNote 1081 - Christmas Closure 2018](#)

[EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations](#)

EnviroNote 1081 – for Eurofins | mgt Christmas Shutdown Dates, click [here](#)

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Please note from 3rd December our Melbourne laboratory will be operating out of our new state of the art Dandenong South facility

Sample Receipt Advice

Company name: **EI Australia**
Contact name: **Micaela Green**
Project name: **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **2 Day**
Date/Time received: **Jan 21, 2019 1:47 PM**
Eurofins | mgt reference: **636740**

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.
- ☐ 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:

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Micaela Green - micaela.green@eiaustralia.com.au.

#635104

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis														Comments			
Site: <u>182 - 198 Victoria Rd, Marrickville, NSW</u>			Project No: <u>E24098</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / EC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	phenols (TOTAL)	pH	HouD	TCLP HM B / PAH	HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel
Laboratory: Envirolab Services 12 Ashley Street, CHATSWOOD NSW 2067 P: 02 9910 6200			Sampling																					
Sample ID	Laboratory ID	Container Type	Date	Time																				
BH1M-1		S, 2xP, 2xVC	09-01-19	AM/PM		X		X				X								X	X		Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol	
BH3M-1								X				X								X	X			
BH6M-1								X				X								X	X			
BH9M-1								X				X								X	X			
GWQD1										X														
GWQR1										X														
GWQRB1																					X			
GWQTB1		2xVC	LAB	PREPARED							X													
GWQTS1		2xVC	LAB	PREPARED							X													

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): [REDACTED] Received by: Envirolab Eurofins

Report with EI Waste Classification Table ☐

Sampler's Comments:
 GWQTB1 → Trip blank
 GWQTS1 → Trip spike



Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au

IMPORTANT:
 Please e-mail laboratory results to: lab@eiaustralia.com.au

COC March 2018 FORM v4 - SGS

Sheet <u>1</u> of <u>1</u>				Sample Matrix		Analysis														Comments				
Site: <u>182-192 Victoria Rd,</u> <u>Moggickville, NSW</u>			Project No: <u>E24098</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	phenols (total)	pH	HOLD	TCLP HM B / PAH	HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol
Sample ID	Laboratory ID	Container Type	Sampling																					
			Date	Time																				
BHIM-1		2xP, S, 2xVC	09-01-19		X				X			X							X	X	X			
BH3M-1									X			X							X	X	X			
BH6M-1									X			X							X	X	X			
BH9M-1									X			X							X	X	X			
GWQDI										X														
GWQRI		P, S, 2xVC								X														
GWORBI		P, S, 2xVC																			X			
GWQTB1		2xVC	LAB PREPARED								X													
GWQTS1		2xVC	LAB PREPARED								X													

Container Type:
 J= solvent washed, acid rinsed, Teflon sealed, glass jar
 S= solvent washed, acid rinsed glass bottle
 P= natural HDPE plastic bottle
 VC= glass vial, Teflon Septum
 ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI): [REDACTED]

Received by (Eurofins): [REDACTED]

Report with EI Waste Classification Table ☐

Sampler's Comments:
 GWQTB1 → trip blank
 GWQTS1 → trip spike
 635104



Suite 6.01, 55 Miller Street,
 PYRMONT NSW 2009
 Ph: 9516 0722
 lab@eiaustralia.com.au

IMPORTANT:
 Please e-mail laboratory results to: lab@eiaustralia.com.au

COC March 2018 FORM v.4 - SGS

Sample Receipt Advice

Company name: **EI Australia**
Contact name: **Micaela Green**
Project name: **182-198 VICTORIA ROAD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **5 Day**
Date/Time received: **Jan 9, 2019 3:35 PM**
Eurofins | mgt reference: **635104**

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).

Notes

pH to be conducted from unpreserved amber.

Contact notes

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

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Micaela Green - micaela.green@eiaustralia.com.au.

[illegible]

Sample Receipt Advice

Company name: **EI Australia**
Contact name: **- SRA/RESULTS**
Project name: **182-198 VICTORIA RD MARRICKVILLE NSW**
Project ID: **E24098**
COC number: **Not provided**
Turn around time: **5 Day**
Date/Time received: **Jan 11, 2019 3:21 PM**
Eurofins | mgt reference: **635461**

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:

Nibha Vaidya on Phone : +61 (2) 9900 8415 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to - SRA/RESULTS - lab@eiaustralia.com.au.

[illegible]

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Lab Email

Sample Login Details

Your reference	E24098, Marrickville
Envirolab Reference	208682
Date Sample Received	19/12/2018
Date Instructions Received	19/12/2018
Date Results Expected to be Reported	08/01/2019

Sample Condition

Samples received in appropriate condition for analysis	YES
No. of Samples Provided	1 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14.3
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	VTRH(C6-C10)/BTXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metals in soil
QT1	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Sheet <u>1</u> of <u>1</u>					Sample Matrix		Analysis														Comments									
Site: <u>182-198 Victoria Rd</u> <u>Marrickville</u>			Project No: <u>E24098</u>		WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM A /TRH/BTEX/PAHs OC/OP/PCB/Asbestos	HM A /TRH/BTEX/PAHs	HM A /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	SPOCAS	PFAS				TCLP HM B / PAH							
Laboratory:	Envirolab Services 12 Ashley Street, CHATSWOOD NSW 2067 P: 02 9910 6200		Laboratory ID	Container Type																				Sampling Date Time						
GWQT1	(1)	P, S, ZXX	09-01-19	AM/PM	X					X																				
 Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200																							HM A Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc HM B Arsenic Cadmium Chromium Lead Mercury Nickel Dewatering Suite pH & EC TDS / TDU Hardness Total Cyanide Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn) TRH (F1, F2, F3, F4) BTEX PAH Total Phenol							
Job No: <u>209245</u> Date Received: <u>09/01/19</u> Time Received: <u>16:25</u> Received by: <u>[Signature]</u> Temp: <u>Cool/Ambient</u> Cooling: <u>Ice/icepack</u> Security: <u>Intact/Broken/None</u>																							LABORATORY TURNAROUND ☒ Standard ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Other _____							
Container Type: J= solvent washed, acid rinsed, Teflon sealed, glass jar S= solvent washed, acid rinsed glass bottle P= natural HDPE plastic bottle VC= glass vial, Teflon Septum ZLB = Zip-Lock Bag					Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.										Report with EI Waste Classification Table ☐															
 Suite 6.01, 55 Miller Street, PYRMONT NSW 2009 Ph: 9516 0722 lab@eiaustralia.com.au COC March 2018 FORM 1.4 - SGS					Sampler's Name (EI): 										Received by (Envirolab): 								Sampler's Comments:							
					Please e-mail laboratory results to: lab@eiaustralia.com.au																									

coc rec'd 10/1/2019 14:16

SAMPLE RECEIPT ADVICE

Client Details

Client	EI Australia
Attention	Lab Email

Sample Login Details

Your reference	E24098, Marrickville
Envirolab Reference	209245
Date Sample Received	09/01/2019
Date Instructions Received	10/01/2019
Date Results Expected to be Reported	17/01/2019

Sample Condition

Samples received in appropriate condition for analysis	YES
No. of Samples Provided	1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	17.0
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	VTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved
GWQT1	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Appendix I – Laboratory Analytical Reports

EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: - SRA/RESULTS

Report **633990-S**
 Project name 182-198 VICTORIA ROAD MARRICKVILLE NSW
 Project ID E24098
 Received Date Dec 20, 2018

Client Sample ID			BH2_0.2-0.3	BH2_1.8-1.9	BH3M_0.3-0.4	BH3M_1.7-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26864	S18-De26865	S18-De26866	S18-De26867
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
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	170	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	330	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	500	< 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	%	106	103	93	80
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH2_0.2-0.3 Soil	BH2_1.8-1.9 Soil	BH3M_0.3-0.4 Soil	BH3M_1.7-1.8 Soil
Sample Matrix			S18-De26864	S18-De26865	S18-De26866	S18-De26867
Eurofins mgt Sample No.			Dec 17, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	106	103	93	80
Toluene-d8 (surr.)	1	%	74	68	114	97
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	420	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	270	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	690	< 100

Client Sample ID			BH2_0.2-0.3 Soil	BH2_1.8-1.9 Soil	BH3M_0.3-0.4 Soil	BH3M_1.7-1.8 Soil
Sample Matrix			S18-De26864	S18-De26865	S18-De26866	S18-De26867
Eurofins mgt Sample No.			Dec 17, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.1	0.8	2.4	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	1.1	2.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	1.4	2.9	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 2	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 2	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 2	< 0.5	< 0.5
Benzo(a)anthracene	0.5	mg/kg	0.7	0.6	1.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.9	0.7	1.8	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	1.0	0.7	1.9	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	0.6	< 0.5	1.4	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Chrysene	0.5	mg/kg	0.7	0.5	1.5	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.1	1.3	3.2	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 2	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	1.0	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 2	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 2	1.3	< 0.5
Pyrene	0.5	mg/kg	1.1	1.3	3.3	< 0.5
Total PAH*	0.5	mg/kg	6.6	5.1	17.8	< 0.5
2-Fluorobiphenyl (surr.)	1	%	108	INT	105	83
p-Terphenyl-d14 (surr.)	1	%	100	148	100	86
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	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 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	-
Dibutylchloroendate (surr.)	1	%	126	-	97	-
Tetrachloro-m-xylene (surr.)	1	%	80	-	88	-

Client Sample ID			BH2_0.2-0.3 Soil	BH2_1.8-1.9 Soil	BH3M_0.3-0.4 Soil	BH3M_1.7-1.8 Soil
Sample Matrix			S18-De26864	S18-De26865	S18-De26866	S18-De26867
Eurofins mgt Sample No.			Dec 17, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	123	-	123	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	126	-	97	-
Tetrachloro-m-xylene (surr.)	1	%	80	-	88	-

Client Sample ID			BH2_0.2-0.3 Soil	BH2_1.8-1.9 Soil	BH3M_0.3-0.4 Soil	BH3M_1.7-1.8 Soil
Sample Matrix			S18-De26864	S18-De26865	S18-De26866	S18-De26867
Eurofins mgt Sample No.			Dec 17, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	124	-	112	-
13C5-PFPeA (surr.)	1	%	84	-	93	-
13C5-PFHxA (surr.)	1	%	135	-	146	-
13C4-PFHpA (surr.)	1	%	123	-	120	-
13C8-PFOA (surr.)	1	%	117	-	115	-
13C5-PFNA (surr.)	1	%	128	-	122	-
13C6-PFDA (surr.)	1	%	70	-	87	-
13C2-PFUnDA (surr.)	1	%	149	-	142	-
13C2-PFDoDA (surr.)	1	%	154	-	148	-
13C2-PFTeDA (surr.)	1	%	64	-	78	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	73	-	82	-
D3-N-MeFOSA (surr.)	1	%	113	-	116	-
D5-N-EtFOSA (surr.)	1	%	126	-	137	-
D7-N-MeFOSE (surr.)	1	%	100	-	109	-
D9-N-EtFOSE (surr.)	1	%	98	-	119	-
D5-N-EtFOSAA (surr.)	1	%	93	-	105	-
D3-N-MeFOSAA (surr.)	1	%	120	-	109	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	< 5	-	^{N09} 8.7	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	106	-	108	-
18O2-PFHxS (surr.)	1	%	109	-	111	-
13C8-PFOS (surr.)	1	%	104	-	118	-

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	BH2_0.2-0.3 Soil S18-De26864 Dec 17, 2018	BH2_1.8-1.9 Soil S18-De26865 Dec 17, 2018	BH3M_0.3-0.4 Soil S18-De26866 Dec 17, 2018	BH3M_1.7-1.8 Soil S18-De26867 Dec 17, 2018
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	88	-	100	-
13C2-6:2 FTSA (surr.)	1	%	105	-	99	-
13C2-8:2 FTSA (surr.)	1	%	127	-	103	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	8.7	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	8.7	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	8.7	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	< 10	-
Sum of PFASs (n=28)*	50	ug/kg	< 50	-	< 50	-
Heavy Metals						
Arsenic	2	mg/kg	48	12	3.6	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	18	8.2	14
Copper	5	mg/kg	69	< 5	18	< 5
Lead	5	mg/kg	290	10	260	9.9
Mercury	0.1	mg/kg	1.1	< 0.1	0.3	< 0.1
Nickel	5	mg/kg	9.8	< 5	15	< 5
Zinc	5	mg/kg	250	5.4	120	< 5
% Moisture	1	%	17	18	10	22

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	BH7_0.2-0.3 Soil S18-De26868 Dec 18, 2018	BH7_1.4-1.5 Soil S18-De26869 Dec 18, 2018	BH7_2.4-2.5 Soil S18-De26870 Dec 18, 2018	BH7_3.1-3.2 Soil S18-De26871 Dec 18, 2018
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	< 50	-	-
TRH C29-C36	50	mg/kg	< 50	< 50	-	-
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	-	-
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	%	68	76	-	-

Client Sample ID			BH7_0.2-0.3 Soil	BH7_1.4-1.5 Soil	BH7_2.4-2.5 Soil	BH7_3.1-3.2 Soil
Sample Matrix			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Eurofins mgt Sample No.			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH7_0.2-0.3 Soil	BH7_1.4-1.5 Soil	BH7_2.4-2.5 Soil	BH7_3.1-3.2 Soil
Sample Matrix			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Eurofins mgt Sample No.			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	68	-	-	-
Toluene-d8 (surr.)	1	%	90	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	-
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	< 100	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.0	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.3	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.6	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	0.7	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	0.8	< 0.5	-	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	0.8	< 0.5	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	0.8	< 0.5	-	-
Dibenz(a,h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	1.2	< 0.5	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	1.2	< 0.5	-	-
Total PAH*	0.5	mg/kg	6.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	115	110	-	-
p-Terphenyl-d14 (surr.)	1	%	118	111	-	-
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	-	-	-

Client Sample ID			BH7_0.2-0.3 Soil	BH7_1.4-1.5 Soil	BH7_2.4-2.5 Soil	BH7_3.1-3.2 Soil
Sample Matrix			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Eurofins mgt Sample No.			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 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	-	-	-
Dibutylchloroendate (surr.)	1	%	127	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	109	-	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-

Client Sample ID			BH7_0.2-0.3 Soil	BH7_1.4-1.5 Soil	BH7_2.4-2.5 Soil	BH7_3.1-3.2 Soil
Sample Matrix			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Eurofins mgt Sample No.			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	116	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	127	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	109	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	184	-	-	-
13C5-PFPeA (surr.)	1	%	96	-	-	-
13C5-PFHxA (surr.)	1	%	148	-	-	-
13C4-PFHpA (surr.)	1	%	119	-	-	-
13C8-PFOA (surr.)	1	%	112	-	-	-
13C5-PFNA (surr.)	1	%	121	-	-	-
13C6-PFDA (surr.)	1	%	99	-	-	-
13C2-PFUnDA (surr.)	1	%	133	-	-	-
13C2-PFDoDA (surr.)	1	%	144	-	-	-
13C2-PFTeDA (surr.)	1	%	72	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	-	-

Client Sample ID			BH7_0.2-0.3 Soil	BH7_1.4-1.5 Soil	BH7_2.4-2.5 Soil	BH7_3.1-3.2 Soil
Sample Matrix			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Eurofins mgt Sample No.			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	74	-	-	-
D3-N-MeFOSA (surr.)	1	%	112	-	-	-
D5-N-EtFOSA (surr.)	1	%	102	-	-	-
D7-N-MeFOSE (surr.)	1	%	104	-	-	-
D9-N-EtFOSE (surr.)	1	%	91	-	-	-
D5-N-EtFOSAA (surr.)	1	%	103	-	-	-
D3-N-MeFOSAA (surr.)	1	%	90	-	-	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 18	-	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	105	-	-	-
18O2-PFHxS (surr.)	1	%	103	-	-	-
13C8-PFOS (surr.)	1	%	118	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	94	-	-	-
13C2-6:2 FTSA (surr.)	1	%	92	-	-	-
13C2-8:2 FTSA (surr.)	1	%	120	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	18	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	18	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	18	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	18	-	-	-
Sum of PFASs (n=28)*	50	ug/kg	< 50	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.2	3.8	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	19	16	-	-
Copper	5	mg/kg	82	7.5	-	-
Lead	5	mg/kg	130	30	-	-
Mercury	0.1	mg/kg	0.1	< 0.1	-	-
Nickel	5	mg/kg	18	< 5	-	-
Zinc	5	mg/kg	230	43	-	-
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	6.3	6.5	6.3
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	5.1	4.9	5.6
Reaction Ratings ^{*S05}		comment	-	4.0	2.0	2.0

Client Sample ID			BH7_0.2-0.3	BH7_1.4-1.5	BH7_2.4-2.5	BH7_3.1-3.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26868	S18-De26869	S18-De26870	S18-De26871
Date Sampled			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
% Moisture	1	%	28	20	-	-

Client Sample ID			BH7_4.0-4.1	BH10_0.3-0.4	BH12_0.0-0.1	BH12_0.7-0.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Date Sampled			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
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	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	-	< 50	< 50	< 50
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	%	-	82	64	61
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5

Client Sample ID			BH7_4.0-4.1 Soil	BH10_0.3-0.4 Soil	BH12_0.0-0.1 Soil	BH12_0.7-0.8 Soil
Sample Matrix			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Eurofins mgt Sample No.			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	82	64	61
Toluene-d8 (surr.)	1	%	-	99	70	68
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	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 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

Client Sample ID			BH7_4.0-4.1 Soil	BH10_0.3-0.4 Soil	BH12_0.0-0.1 Soil	BH12_0.7-0.8 Soil
Sample Matrix			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Eurofins mgt Sample No.			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	0.8	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1,2,3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	0.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	2.2	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	113	116	100
p-Terphenyl-d14 (surr.)	1	%	-	116	127	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	0.5	< 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	-
α-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
β-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
δ-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
γ-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	0.07	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 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	-	0.57	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	0.57	< 0.1	-
Dibutylchloroendate (surr.)	1	%	-	150	129	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	118	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-

Client Sample ID			BH7_4.0-4.1 Soil	BH10_0.3-0.4 Soil	BH12_0.0-0.1 Soil	BH12_0.7-0.8 Soil
Sample Matrix			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Eurofins mgt Sample No.			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Coumaphos	2	mg/kg	-	< 2	< 2	-
Demeton-S	0.2	mg/kg	-	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	-	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	-	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	-	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	-	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	-	< 0.2	< 0.2	-
EPN	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	-	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	-	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	-	< 2	< 2	-
Naled	0.2	mg/kg	-	< 0.2	< 0.2	-
Omethoate	2	mg/kg	-	< 2	< 2	-
Phorate	0.2	mg/kg	-	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	-	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	-	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	-	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	-	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	-	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	-	115	124	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 5	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	150	129	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	118	-
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	-	-

Client Sample ID			BH7_4.0-4.1 Soil	BH10_0.3-0.4 Soil	BH12_0.0-0.1 Soil	BH12_0.7-0.8 Soil
Sample Matrix			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Eurofins mgt Sample No.			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
Tetrachlorophenols - Total	1	mg/kg	-	< 1	-	-
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	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	%	-	108	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	-	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	-	< 5	< 5	-
13C4-PFBA (surr.)	1	%	-	184	94	-
13C5-PFPeA (surr.)	1	%	-	91	101	-
13C5-PFHxA (surr.)	1	%	-	140	140	-
13C4-PFHpA (surr.)	1	%	-	114	117	-
13C8-PFOA (surr.)	1	%	-	105	115	-
13C5-PFNA (surr.)	1	%	-	119	130	-
13C6-PFDA (surr.)	1	%	-	88	69	-
13C2-PFUnDA (surr.)	1	%	-	137	145	-
13C2-PFDoDA (surr.)	1	%	-	138	162	-
13C2-PFTeDA (surr.)	1	%	-	74	69	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	-	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	-	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	-	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	-	< 10	< 10	-
13C8-FOSA (surr.)	1	%	-	81	76	-

Client Sample ID			BH7_4.0-4.1 Soil	BH10_0.3-0.4 Soil	BH12_0.0-0.1 Soil	BH12_0.7-0.8 Soil
Sample Matrix			S18-De26872	S18-De26873	S18-De26874	S18-De26875
Eurofins mgt Sample No.			Dec 18, 2018	Dec 17, 2018	Dec 17, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	-	134	128	-
D5-N-EtFOSA (surr.)	1	%	-	114	120	-
D7-N-MeFOSE (surr.)	1	%	-	114	109	-
D9-N-EtFOSE (surr.)	1	%	-	119	107	-
D5-N-EtFOSAA (surr.)	1	%	-	111	120	-
D3-N-MeFOSAA (surr.)	1	%	-	108	110	-
Perfluoroalkyl sulfonic acids (PFSA's)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	-	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	-	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	-	< 5	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	-	< 5	< 5	-
13C3-PFBS (surr.)	1	%	-	107	105	-
18O2-PFHxS (surr.)	1	%	-	106	110	-
13C8-PFOS (surr.)	1	%	-	111	108	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	-	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	-	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	-	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	-	86	97	-
13C2-6:2 FTSA (surr.)	1	%	-	112	87	-
13C2-8:2 FTSA (surr.)	1	%	-	116	153	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	< 10	-
Sum of PFASs (n=28)*	50	ug/kg	-	< 50	< 50	-
Heavy Metals						
Arsenic	2	mg/kg	-	2.6	10	14
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	5.3	21	27
Copper	5	mg/kg	-	18	12	< 5
Lead	5	mg/kg	-	140	31	17
Mercury	0.1	mg/kg	-	0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	9.8	< 5
Zinc	5	mg/kg	-	180	11	< 5
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	6.4	-	-	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	6.1	-	-	-
Reaction Ratings ^{S05}		comment	2.0	-	-	-
% Moisture	1	%	-	9.7	22	17

Client Sample ID			BH13_0.3-0.4	BH13_0.7-0.8	BH14M_0.2-0.3	BH14M_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
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	87	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	65	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	152	< 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	76	68	61
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			BH13_0.3-0.4 Soil	BH13_0.7-0.8 Soil	BH14M_0.2-0.3 Soil	BH14M_1.2-1.3 Soil
Sample Matrix			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Eurofins mgt Sample No.			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	0.7	-	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	0.7	-	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	0.7	-	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	78	-	68	61
Toluene-d8 (surr.)	1	%	88	-	73	66
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	130	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	130	< 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	< 0.5	< 0.5	1.3	< 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

Client Sample ID			BH13_0.3-0.4	BH13_0.7-0.8	BH14M_0.2-0.3	BH14M_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	1.2	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	2.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	93	125	111
p-Terphenyl-d14 (surr.)	1	%	137	124	131	121
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.5	-
4,4'-DDD	0.05	mg/kg	< 0.05	-	< 0.5	-
4,4'-DDE	0.05	mg/kg	< 0.05	-	< 0.5	-
4,4'-DDT	0.05	mg/kg	< 0.05	-	< 0.5	-
α-BHC	0.05	mg/kg	< 0.05	-	< 0.5	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.5	-
β-BHC	0.05	mg/kg	< 0.05	-	< 0.5	-
δ-BHC	0.05	mg/kg	< 0.05	-	< 0.5	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.5	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.5	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.5	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.5	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.5	-
γ-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.5	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.5	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.5	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.5	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 2	-
Toxaphene	1	mg/kg	< 1	-	< 10	-
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	-
Dibutylchloroendate (surr.)	1	%	138	-	142	-
Tetrachloro-m-xylene (surr.)	1	%	136	-	104	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-

Client Sample ID			BH13_0.3-0.4	BH13_0.7-0.8	BH14M_0.2-0.3	BH14M_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	130	-	124	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 5	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 5	-
Total PCB*	0.5	mg/kg	< 0.5	-	< 5	-
Dibutylchlorendate (surr.)	1	%	138	-	142	-
Tetrachloro-m-xylene (surr.)	1	%	136	-	104	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	11	-	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluorotridecanoic acid (PFTTrDA) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	< 5	-
13C4-PFBA (surr.)	1	%	136	-	73	-
13C5-PFPeA (surr.)	1	%	98	-	89	-
13C5-PFHxA (surr.)	1	%	121	-	134	-
13C4-PFHpA (surr.)	1	%	113	-	117	-
13C8-PFOA (surr.)	1	%	104	-	111	-

Client Sample ID			BH13_0.3-0.4	BH13_0.7-0.8	BH14M_0.2-0.3	BH14M_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFNA (surr.)	1	%	112	-	116	-
13C6-PFDA (surr.)	1	%	99	-	81	-
13C2-PFUnDA (surr.)	1	%	125	-	138	-
13C2-PFDoDA (surr.)	1	%	132	-	138	-
13C2-PFTeDA (surr.)	1	%	87	-	73	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	< 5	-
N-ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	< 10	-
13C8-FOSA (surr.)	1	%	94	-	77	-
D3-N-MeFOSA (surr.)	1	%	126	-	126	-
D5-N-EtFOSA (surr.)	1	%	128	-	109	-
D7-N-MeFOSE (surr.)	1	%	117	-	105	-
D9-N-EtFOSE (surr.)	1	%	106	-	92	-
D5-N-EtFOSAA (surr.)	1	%	121	-	104	-
D3-N-MeFOSAA (surr.)	1	%	103	-	104	-
Perfluoroalkyl sulfonic acids (PFSA)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 13	-	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C3-PFBS (surr.)	1	%	100	-	104	-
18O2-PFHxS (surr.)	1	%	101	-	109	-
13C8-PFOS (surr.)	1	%	110	-	114	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	-	< 5	-
13C2-4:2 FTSA (surr.)	1	%	79	-	90	-
13C2-6:2 FTSA (surr.)	1	%	90	-	98	-
13C2-8:2 FTSA (surr.)	1	%	110	-	138	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	13	-	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	13	-	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	13	-	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	13	-	< 10	-
Sum of PFASs (n=28)*	50	ug/kg	< 50	-	< 50	-

Client Sample ID			BH13_0.3-0.4	BH13_0.7-0.8	BH14M_0.2-0.3	BH14M_1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26876	S18-De26877	S18-De26878	S18-De26879
Date Sampled			Dec 17, 2018	Dec 17, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	45	15	11	2.6
Cadmium	0.4	mg/kg	0.7	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	10	22	20	< 5
Copper	5	mg/kg	51	16	39	< 5
Lead	5	mg/kg	180	65	93	9.6
Mercury	0.1	mg/kg	0.2	0.2	0.3	< 0.1
Nickel	5	mg/kg	15	8.8	12	< 5
Zinc	5	mg/kg	310	46	200	< 5
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	-	-	-	6.9
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	-	-	-	5.4
Reaction Ratings* ^{S05}		comment	-	-	-	2.0
% Moisture	1	%	30	31	29	15

Client Sample ID			BH14M_1.8-1.9	BH14M_2.9-3.0	BH14M_3.8-3.9	QD1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26880	S18-De26881	S18-De26882	S18-De26883
Date Sampled			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	120
TRH C29-C36	50	mg/kg	-	-	-	72
TRH C10-36 (Total)	50	mg/kg	-	-	-	192
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	%	-	-	-	85
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	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	160
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	160

Client Sample ID			BH14M_1.8-1.9	BH14M_2.9-3.0	BH14M_3.8-3.9	QD1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26880	S18-De26881	S18-De26882	S18-De26883
Date Sampled			Dec 18, 2018	Dec 18, 2018	Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	15
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	18
Copper	5	mg/kg	-	-	-	31
Lead	5	mg/kg	-	-	-	85
Mercury	0.1	mg/kg	-	-	-	0.2
Nickel	5	mg/kg	-	-	-	11
Zinc	5	mg/kg	-	-	-	150
Acid Sulfate Soils Field pH Test						
pH-F (Field pH test)*	0.1	pH Units	6.8	7.4	6.8	-
pH-FOX (Field pH Peroxide test)*	0.1	pH Units	5.2	7.4	6.4	-
Reaction Ratings* ^{S05}		comment	2.0	4.0	2.0	-
% Moisture	1	%	-	-	-	28

Client Sample ID			QTB1	R20 QTS1
Sample Matrix			Soil	Soil
Eurofins mgt Sample No.			S18-De26885	S18-De26886
Date Sampled			Dec 18, 2018	Dec 18, 2018
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.1	mg/kg	< 0.1	82
Toluene	0.1	mg/kg	< 0.1	83
Ethylbenzene	0.1	mg/kg	< 0.1	83
m&p-Xylenes	0.2	mg/kg	< 0.2	82
o-Xylene	0.1	mg/kg	< 0.1	82
Xylenes - Total	0.3	mg/kg	< 0.3	82
4-Bromofluorobenzene (surr.)	1	%	94	85

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 (regarding both quality and NATA accreditation).

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	Sydney	Jan 08, 2019	14 Day
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 08, 2019	14 Day
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 08, 2019	14 Day
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 08, 2019	14 Day
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 08, 2019	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Jan 07, 2019	14 Day
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Jan 07, 2019	14 Day
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Polychlorinated Biphenyls	Sydney	Jan 07, 2019	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Jan 08, 2019	28 Day
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Volatile Organics	Sydney	Jan 08, 2019	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Acid Sulfate Soils Field pH Test	Brisbane	Dec 21, 2018	7 Days
- Method: LTM-GEN-7060 Determination of field pH (pHF) and field pH peroxide (pHFOX) tests			
Phenols (Halogenated)	Sydney	Dec 21, 2018	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Dec 21, 2018	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Dec 21, 2018	180 Day
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Dec 21, 2018	180 Day
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Dec 21, 2018	180 Day
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Dec 21, 2018	180 Day
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
% Moisture	Sydney	Dec 20, 2018	14 Day
- Method: LTM-GEN-7080 Moisture			

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 633990
Phone: 02 9516 0722
Fax:

Received: Dec 20, 2018 9:45 AM
Due: Jan 8, 2019
Priority: 10 Day
Contact Name: - SRA/RESULTS

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos - AS4964	HOLD	Acid Sulfate Soils Field pH Test	Phenols (WRC 621)	BTEX	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B6	Per - and Polyfluoroalkyl Substances (PFASs)	EI Australia Waste Class:TRH/BTEXN/P/AH/OCP/OPP/PP/Metals
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X		X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794								X							X	
Perth Laboratory - NATA Site # 23736																
External Laboratory																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	BH2_0.2-0.3	Dec 17, 2018		Soil	S18-De26864						X	X			X	X
2	BH2_1.8-1.9	Dec 17, 2018		Soil	S18-De26865						X	X	X			
3	BH3M_0.3-0.4	Dec 17, 2018		Soil	S18-De26866						X	X			X	X
4	BH3M_1.7-1.8	Dec 17, 2018		Soil	S18-De26867						X	X	X			
5	BH7_0.2-0.3	Dec 18, 2018		Soil	S18-De26868						X	X			X	X
6	BH7_1.4-1.5	Dec 18, 2018		Soil	S18-De26869			X				X	X			
7	BH7_2.4-2.5	Dec 18, 2018		Soil	S18-De26870			X								
8	BH7_3.1-3.2	Dec 18, 2018		Soil	S18-De26871			X								
9	BH7_4.0-4.1	Dec 18, 2018		Soil	S18-De26872			X								

Company Name:	El Australia	Order No.:		Received:	Dec 20, 2018 9:45 AM
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	Pymont	Phone:	02 9516 0722	Priority:	10 Day
	NSW 2009	Fax:		Contact Name:	- SRA/RESULTS
Project Name:	182-198 VICTORIA ROAD MARRICKVILLE NSW				
Project ID:	E24098				
Eurofins mgt Analytical Services Manager : Nibha Vaidya					

Sample Detail														EI Australia Waste Class: TRH/BTEX/NP/AH/OCP/OPP/Metals	
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X	X							X	
Brisbane Laboratory - NATA Site # 20794								X					X		
Perth Laboratory - NATA Site # 23736															
10	BH10_0.3-0.4	Dec 17, 2018		Soil	S18-De26873				X		X	X		X	X
11	BH12_0.0-0.1	Dec 17, 2018		Soil	S18-De26874						X	X		X	X
12	BH12_0.7-0.8	Dec 17, 2018		Soil	S18-De26875						X	X	X		
13	BH13_0.3-0.4	Dec 17, 2018		Soil	S18-De26876						X	X		X	X
14	BH13_0.7-0.8	Dec 17, 2018		Soil	S18-De26877	X						X	X		
15	BH14M_0.2-0.3	Dec 18, 2018		Soil	S18-De26878						X	X		X	X
16	BH14M_1.2-1.3	Dec 18, 2018		Soil	S18-De26879			X			X	X	X		
17	BH14M_1.8-1.9	Dec 18, 2018		Soil	S18-De26880			X							
18	BH14M_2.9-3.0	Dec 18, 2018		Soil	S18-De26881			X							

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
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NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
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Received: Dec 20, 2018 9:45 AM
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Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos - AS4964	HOLD	Acid Sulfate Soils Field pH Test	Phenols (WRC 621)	BTEX	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B6	Per - and Polyfluoroalkyl Substances (PFASs)	EI Australia Waste Class:TRH/BTEXN/P/AH/OCP/OPP/PP/Metals
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X		X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794								X							X	
Perth Laboratory - NATA Site # 23736																
19	BH14M_3.8-3.9	Dec 18, 2018		Soil	S18-De26882			X								
20	QD1	Dec 18, 2018		Soil	S18-De26883							X		X		
21	QR1	Dec 18, 2018		Water	S18-De26884									X		
22	QTB1	Dec 18, 2018		Soil	S18-De26885					X						
23	QTS1	Dec 18, 2018		Soil	S18-De26886					X						
24	BH2_0.7-0.8	Dec 17, 2018		Soil	S18-De26897		X									
25	BH2_1.3-1.4	Dec 17, 2018		Soil	S18-De26898		X									
26	BH3M_1.0-1.1	Dec 17, 2018		Soil	S18-De26899		X									
27	BH3M_1.4-1.5	Dec 17, 2018		Soil	S18-De26900		X									
28	BH3M_2.5-2.6	Dec 17, 2018		Soil	S18-De26901		X									
29	BH3M_3.7-3.8	Dec 17, 2018		Soil	S18-De26902		X									

Received: Dec 20, 2018 9:45 AM
Due: Jan 8, 2019
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Sample Detail

Report Number: 633990-S

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. 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. 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	Quality Systems Manual ver 5.1 US Department of Defense
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 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							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	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	< 1			1	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	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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTriDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			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	%	89			70-130	Pass	
TRH C10-C14	%	110			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	113			70-130	Pass	
Toluene	%	109			70-130	Pass	
Ethylbenzene	%	128			70-130	Pass	
m&p-Xylenes	%	130			70-130	Pass	
o-Xylene	%	122			70-130	Pass	
Xylenes - Total	%	127			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	74			70-130	Pass	
1.1.1-Trichloroethane	%	92			70-130	Pass	
1.2-Dichlorobenzene	%	104			70-130	Pass	
1.2-Dichloroethane	%	93			70-130	Pass	
Benzene	%	97			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Toluene	%	81			70-130	Pass	
Trichloroethene	%	86			70-130	Pass	
Xylenes - Total	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	83			70-130	Pass	
TRH C6-C10	%	85			70-130	Pass	
TRH >C10-C16	%	106			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	113			70-130	Pass	
Benzo(a)pyrene	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	118			70-130	Pass	
Benzo(g,h,i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	118			70-130	Pass	
Chrysene	%	85			70-130	Pass	
Dibenz(a,h)anthracene	%	80			70-130	Pass	
Fluoranthene	%	115			70-130	Pass	
Fluorene	%	117			70-130	Pass	
Indeno(1,2,3-cd)pyrene	%	84			70-130	Pass	
Naphthalene	%	115			70-130	Pass	
Phenanthrene	%	119			70-130	Pass	
Pyrene	%	116			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
4,4'-DDD	%	92			70-130	Pass	
4,4'-DDE	%	115			70-130	Pass	
4,4'-DDT	%	113			70-130	Pass	
a-BHC	%	124			70-130	Pass	
Aldrin	%	122			70-130	Pass	
b-BHC	%	102			70-130	Pass	
d-BHC	%	109			70-130	Pass	
Dieldrin	%	117			70-130	Pass	
Endosulfan I	%	121			70-130	Pass	
Endosulfan II	%	123			70-130	Pass	
Endosulfan sulphate	%	125			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	120			70-130	Pass	
Endrin ketone	%	129			70-130	Pass	
g-BHC (Lindane)	%	123			70-130	Pass	
Heptachlor	%	125			70-130	Pass	
Heptachlor epoxide	%	117			70-130	Pass	
Hexachlorobenzene	%	104			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	79			70-130	Pass	
Dimethoate	%	77			70-130	Pass	
Ethion	%	73			70-130	Pass	
Fenitrothion	%	73			70-130	Pass	
Methyl parathion	%	122			70-130	Pass	
Mevinphos	%	91			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	100			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	71			30-130	Pass	
2,4-Dichlorophenol	%	82			30-130	Pass	
2,4,5-Trichlorophenol	%	73			30-130	Pass	
2,4,6-Trichlorophenol	%	79			30-130	Pass	
2,6-Dichlorophenol	%	72			30-130	Pass	
4-Chloro-3-methylphenol	%	73			30-130	Pass	
Pentachlorophenol	%	107			30-130	Pass	
Tetrachlorophenols - Total	%	82			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Cyclohexyl-4,6-dinitrophenol	%	94			30-130	Pass	
2-Methyl-4,6-dinitrophenol	%	115			30-130	Pass	
2-Methylphenol (o-Cresol)	%	74			30-130	Pass	
2-Nitrophenol	%	125			30-130	Pass	
2,4-Dimethylphenol	%	72			30-130	Pass	
2,4-Dinitrophenol	%	31			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	74			30-130	Pass	
4-Nitrophenol	%	74			30-130	Pass	
Dinoseb	%	39			30-130	Pass	
Phenol	%	75			30-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	108			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	125			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	98			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	101			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	120			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	104			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	106			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	101			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	85			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	112			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	88			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	107			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	%	93			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	103			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	105			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	115			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	125			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	109			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	136			50-150	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			70-130	Pass	
Cadmium	%	101			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	94			70-130	Pass	
Lead	%	99			70-130	Pass	
Mercury	%	113			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel			%	94			70-130	Pass	
Zinc			%	95			70-130	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 C6-C9	S18-De27460	NCP	%	87			70-130	Pass	
TRH C10-C14	S19-Ja01629	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S18-De27460	NCP	%	83			70-130	Pass	
TRH >C10-C16	S19-Ja01629	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S19-Ja01415	NCP	%	107			70-130	Pass	
Acenaphthylene	S19-Ja01415	NCP	%	115			70-130	Pass	
Anthracene	S19-Ja01415	NCP	%	123			70-130	Pass	
Benz(a)anthracene	S19-Ja01415	NCP	%	117			70-130	Pass	
Benzo(a)pyrene	S19-Ja01415	NCP	%	117			70-130	Pass	
Benzo(b&j)fluoranthene	S19-Ja01415	NCP	%	111			70-130	Pass	
Benzo(g,h,i)perylene	S19-Ja01415	NCP	%	129			70-130	Pass	
Benzo(k)fluoranthene	S19-Ja01415	NCP	%	109			70-130	Pass	
Chrysene	S19-Ja01415	NCP	%	116			70-130	Pass	
Dibenz(a,h)anthracene	S19-Ja01415	NCP	%	128			70-130	Pass	
Fluoranthene	S19-Ja01415	NCP	%	108			70-130	Pass	
Fluorene	S19-Ja01415	NCP	%	116			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Ja01415	NCP	%	130			70-130	Pass	
Naphthalene	S19-Ja01415	NCP	%	101			70-130	Pass	
Phenanthrene	S19-Ja01415	NCP	%	124			70-130	Pass	
Pyrene	S19-Ja01415	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S19-Ja01415	NCP	%	77			70-130	Pass	
Dimethoate	S19-Ja01415	NCP	%	80			70-130	Pass	
Ethion	S19-Ja01415	NCP	%	81			70-130	Pass	
Fenitrothion	S19-Ja01415	NCP	%	79			70-130	Pass	
Methyl parathion	S19-Ja01415	NCP	%	89			70-130	Pass	
Mevinphos	S19-Ja01415	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S18-De29127	NCP	%	86			70-130	Pass	
Cadmium	S18-De29127	NCP	%	95			70-130	Pass	
Chromium	S18-De29127	NCP	%	88			70-130	Pass	
Copper	S18-De29127	NCP	%	92			70-130	Pass	
Lead	S18-De29127	NCP	%	94			70-130	Pass	
Mercury	S18-De29127	NCP	%	98			70-130	Pass	
Nickel	S18-De29127	NCP	%	88			70-130	Pass	
Zinc	S18-De29127	NCP	%	101			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S18-De26865	CP	%	78			70-130	Pass	
Toluene	S18-De26865	CP	%	79			70-130	Pass	
Ethylbenzene	S18-De26865	CP	%	95			70-130	Pass	
m&p-Xylenes	S18-De26865	CP	%	95			70-130	Pass	
o-Xylene	S18-De26865	CP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total	S18-De26865	CP	%	93			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S18-De26865	CP	%	76			70-130	Pass	
1.1.1-Trichloroethane	S18-De26865	CP	%	84			70-130	Pass	
1.2-Dichlorobenzene	S18-De26865	CP	%	92			70-130	Pass	
1.2-Dichloroethane	S18-De26865	CP	%	88			70-130	Pass	
Trichloroethene	S18-De26865	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S18-De26865	CP	%	90			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	S18-De24005	NCP	%	114			70-130	Pass	
4.4'-DDE	S18-De31222	NCP	%	124			70-130	Pass	
4.4'-DDT	S18-De31313	NCP	%	72			70-130	Pass	
a-BHC	S18-De27363	NCP	%	129			70-130	Pass	
Aldrin	S18-De27363	NCP	%	119			70-130	Pass	
b-BHC	S18-De23757	NCP	%	88			70-130	Pass	
d-BHC	S18-De31313	NCP	%	130			70-130	Pass	
Dieldrin	S18-De27363	NCP	%	124			70-130	Pass	
Endosulfan I	S18-De27363	NCP	%	125			70-130	Pass	
Endosulfan II	S18-De31222	NCP	%	121			70-130	Pass	
Endosulfan sulphate	S18-De31222	NCP	%	124			70-130	Pass	
Endrin	S18-De31313	NCP	%	106			70-130	Pass	
Endrin aldehyde	S18-De27363	NCP	%	106			70-130	Pass	
Endrin ketone	S18-De31222	NCP	%	114			70-130	Pass	
g-BHC (Lindane)	S18-De31313	NCP	%	130			70-130	Pass	
Heptachlor	S18-De27363	NCP	%	117			70-130	Pass	
Heptachlor epoxide	S18-De27363	NCP	%	124			70-130	Pass	
Hexachlorobenzene	S18-De27363	NCP	%	119			70-130	Pass	
Methoxychlor	S18-De31313	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S18-De27363	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCA)				Result 1					
Perfluorobutanoic acid (PFBA)	S18-De27555	NCP	%	109			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S18-De27555	NCP	%	125			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S18-De27555	NCP	%	104			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S18-De27555	NCP	%	104			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S18-De27555	NCP	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	S18-De27555	NCP	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S18-De27555	NCP	%	97			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S18-De27555	NCP	%	93			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S18-De27555	NCP	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTeDA)	S18-De27555	NCP	%	112			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S18-De27555	NCP	%	100			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S18-De27555	NCP	%	108			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S18-De27555	NCP	%	111		50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S18-De27555	NCP	%	136		50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S18-De27555	NCP	%	88		50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S18-De27555	NCP	%	72		50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S18-De27555	NCP	%	97		50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S18-De27555	NCP	%	100		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	S18-De27555	NCP	%	103		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S18-De27555	NCP	%	109		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S18-De27555	NCP	%	98		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S18-De27555	NCP	%	82		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S18-De27555	NCP	%	135		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S18-De27555	NCP	%	95		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S18-De27555	NCP	%	114		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S18-De27555	NCP	%	106		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S18-De27555	NCP	%	100		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S18-De27555	NCP	%	115		50-150	Pass	
Spike - % Recovery								
Phenols (Halogenated)				Result 1				
2-Chlorophenol	S18-De31206	NCP	%	98		30-130	Pass	
2,4-Dichlorophenol	S18-De31206	NCP	%	99		30-130	Pass	
2,4,5-Trichlorophenol	S18-De31206	NCP	%	109		30-130	Pass	
2,4,6-Trichlorophenol	S18-De31206	NCP	%	113		30-130	Pass	
2,6-Dichlorophenol	S18-De31206	NCP	%	105		30-130	Pass	
4-Chloro-3-methylphenol	S18-De31206	NCP	%	101		30-130	Pass	
Pentachlorophenol	S18-De31206	NCP	%	76		30-130	Pass	
Tetrachlorophenols - Total	S18-De31206	NCP	%	100		30-130	Pass	
Spike - % Recovery								
Phenols (non-Halogenated)				Result 1				
2-Cyclohexyl-4,6-dinitrophenol	S18-De31206	NCP	%	100		30-130	Pass	
2-Methyl-4,6-dinitrophenol	S18-De31206	NCP	%	100		30-130	Pass	
2-Methylphenol (o-Cresol)	S18-De31206	NCP	%	103		30-130	Pass	
2-Nitrophenol	S18-De31206	NCP	%	103		30-130	Pass	
2,4-Dimethylphenol	S18-De31206	NCP	%	101		30-130	Pass	
2,4-Dinitrophenol	S18-De31206	NCP	%	96		70-130	Pass	
3&4-Methylphenol (m&p-Cresol)	S18-De31206	NCP	%	103		30-130	Pass	
4-Nitrophenol	S18-De31206	NCP	%	81		30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dinoseb	S18-De31206	NCP	%	99			30-130	Pass	
Phenol	S18-De31206	NCP	%	102			30-130	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 C10-C14	S19-Ja01627	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S19-Ja01627	NCP	mg/kg	140	140	4.0	30%	Pass	
TRH C29-C36	S19-Ja01627	NCP	mg/kg	96	97	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S19-Ja01627	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S19-Ja01627	NCP	mg/kg	200	220	6.0	30%	Pass	
TRH >C34-C40	S19-Ja01627	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g,h,i)perylene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a,h)anthracene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1,2,3-cd)pyrene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S19-Ja01627	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfotthion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Methyl parathion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S19-Ja01627	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S19-Ja01627	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S19-Ja01627	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Ja01621	NCP	mg/kg	5.0	5.0	1.0	30%	Pass
Cadmium	S19-Ja01621	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Chromium	S19-Ja01621	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Copper	S19-Ja01621	NCP	mg/kg	7.6	7.4	3.0	30%	Pass
Lead	S19-Ja01621	NCP	mg/kg	67	69	3.0	30%	Pass
Mercury	S19-Ja01621	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S19-Ja01621	NCP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S19-Ja01621	NCP	mg/kg	29	28	1.0	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S18-De26866	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S18-De26866	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S18-De26866	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S18-De26866	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S18-De26866	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S18-De26866	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S18-De26866	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
4-Chlorotoluene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,2-Dichloroethene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1,3-Dichloropropene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,2-Dichloroethene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1,3-Dichloropropene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S18-De26866	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S18-De26866	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S18-De26311	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S18-De26311	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass

Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Methoxychlor	S18-De26311	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Toxaphene	S18-De26311	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1221	S18-De31221	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1242	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1248	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1254	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1260	S18-De31221	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S18-De27554	NCP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S18-De27554	NCP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S18-De27554	NCP	ug/kg	13	10	20	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S18-De27554	NCP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S18-De27554	NCP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S18-De26866	CP	%	10	9.5	7.0	30%	Pass
Duplicate								
Acid Sulfate Soils Field pH Test				Result 1	Result 2	RPD		
pH-F (Field pH test)*	S18-De26869	CP	pH Units	6.3	6.4	pass	30%	Pass
Reaction Ratings*	S18-De26869	CP	comment	4.0	4.0	pass	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S18-De26879	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S18-De26879	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S18-De26879	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S18-De26879	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S18-De26879	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S18-De26879	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S18-De26879	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
Bromomethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S18-De26879	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S18-De26879	CP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S18-De26879	CP	%	15	16	1.0	30%	Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
R20	This sample is a Trip Spike and therefore all results are reported as a percentage
S05	Field Screen uses the following fizz rating to classify the rate the samples reacted to the peroxide: 1.0; No reaction to slight. 2.0; Moderate reaction. 3.0; Strong reaction with persistent froth. 4.0; Extreme reaction.

Authorised By

Nibha Vaidya	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Organic (QLD)
Myles Clark	Senior Analyst-SPOCAS (QLD)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: - SRA/RESULTS

Report **633990-W**
 Project name 182-198 VICTORIA ROAD MARRICKVILLE NSW
 Project ID E24098
 Received Date Dec 20, 2018

Client Sample ID			QR1
Sample Matrix			Water
Eurofins mgt Sample No.			S18-De26884
Date Sampled			Dec 18, 2018
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	94
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene ^{N02}	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005

EI Australia
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Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
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 The results of the tests, calibrations and/or
 measurements included in this document are traceable
 to Australian/national standards.

Attention: Micaela Green

Report 634500-S
 Project name 182-198 VICTORIA ROAD MARRICKVILLE NSW
 Project ID E24098
 Received Date Dec 20, 2018

Client Sample ID			BH6M_0.2-0.3	BH6M_0.7-0.8	BH6M_1.2-1.3	BH6M_1.7-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Date Sampled			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
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	79	60	26
TRH C15-C28	50	mg/kg	51	160	130	52
TRH C29-C36	50	mg/kg	< 50	130	110	< 50
TRH C10-36 (Total)	50	mg/kg	51	369	300	78
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	%	65	82	77	74
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH6M_0.2-0.3 Soil	BH6M_0.7-0.8 Soil	BH6M_1.2-1.3 Soil	BH6M_1.7-1.8 Soil
Sample Matrix			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Eurofins mgt Sample No.			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	65	82	77	74
Toluene-d8 (surr.)	1	%	67	71	71	70
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	96	74	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	96	74	< 50
TRH >C16-C34	100	mg/kg	< 100	230	190	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	326	264	< 100

Client Sample ID			BH6M_0.2-0.3	BH6M_0.7-0.8	BH6M_1.2-1.3	BH6M_1.7-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Date Sampled			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.3	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
Benzo(a)anthracene	0.5	mg/kg	0.6	< 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	1.0	< 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	0.6	< 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	1.2	< 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	0.7	< 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	6.1	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	116	114	115	123
p-Terphenyl-d14 (surr.)	1	%	107	113	106	100
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	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 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	-	-	-
Dibutylchloroendate (surr.)	1	%	94	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	64	-	-	-

Client Sample ID			BH6M_0.2-0.3 Soil	BH6M_0.7-0.8 Soil	BH6M_1.2-1.3 Soil	BH6M_1.7-1.8 Soil
Sample Matrix			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Eurofins mgt Sample No.			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Bolstar	0.2	mg/kg	< 0.2	-	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	-
Coumaphos	2	mg/kg	< 2	-	-	-
Demeton-S	0.2	mg/kg	< 0.2	-	-	-
Demeton-O	0.2	mg/kg	< 0.2	-	-	-
Diazinon	0.2	mg/kg	< 0.2	-	-	-
Dichlorvos	0.2	mg/kg	< 0.2	-	-	-
Dimethoate	0.2	mg/kg	< 0.2	-	-	-
Disulfoton	0.2	mg/kg	< 0.2	-	-	-
EPN	0.2	mg/kg	< 0.2	-	-	-
Ethion	0.2	mg/kg	< 0.2	-	-	-
Ethoprop	0.2	mg/kg	< 0.2	-	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	-
Fenitrothion	0.2	mg/kg	< 0.2	-	-	-
Fensulfothion	0.2	mg/kg	< 0.2	-	-	-
Fenthion	0.2	mg/kg	< 0.2	-	-	-
Malathion	0.2	mg/kg	< 0.2	-	-	-
Merphos	0.2	mg/kg	< 0.2	-	-	-
Methyl parathion	0.2	mg/kg	< 0.2	-	-	-
Mevinphos	0.2	mg/kg	< 0.2	-	-	-
Monocrotophos	2	mg/kg	< 2	-	-	-
Naled	0.2	mg/kg	< 0.2	-	-	-
Omethoate	2	mg/kg	< 2	-	-	-
Phorate	0.2	mg/kg	< 0.2	-	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	-
Pyrazophos	0.2	mg/kg	< 0.2	-	-	-
Ronnel	0.2	mg/kg	< 0.2	-	-	-
Terbufos	0.2	mg/kg	< 0.2	-	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	-
Tokuthion	0.2	mg/kg	< 0.2	-	-	-
Trichloronate	0.2	mg/kg	< 0.2	-	-	-
Triphenylphosphate (surr.)	1	%	117	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	94	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	64	-	-	-

Client Sample ID			BH6M_0.2-0.3 Soil	BH6M_0.7-0.8 Soil	BH6M_1.2-1.3 Soil	BH6M_1.7-1.8 Soil
Sample Matrix			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Eurofins mgt Sample No.			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4,5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	1	mg/kg	< 1	< 1	< 1	< 1
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4,6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2,4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Phenol-d6 (surr.)	1	%	108	107	102	123
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTeDA) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	98	-	-	-
13C5-PFPeA (surr.)	1	%	106	-	-	-
13C5-PFHxA (surr.)	1	%	92	-	-	-
13C4-PFHpA (surr.)	1	%	100	-	-	-
13C8-PFOA (surr.)	1	%	99	-	-	-
13C5-PFNA (surr.)	1	%	104	-	-	-
13C6-PFDA (surr.)	1	%	113	-	-	-
13C2-PFUnDA (surr.)	1	%	129	-	-	-
13C2-PFDoDA (surr.)	1	%	130	-	-	-
13C2-PFTeDA (surr.)	1	%	130	-	-	-

Client Sample ID			BH6M_0.2-0.3 Soil	BH6M_0.7-0.8 Soil	BH6M_1.2-1.3 Soil	BH6M_1.7-1.8 Soil
Sample Matrix			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Eurofins mgt Sample No.			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	68	-	-	-
D3-N-MeFOSA (surr.)	1	%	93	-	-	-
D5-N-EtFOSA (surr.)	1	%	101	-	-	-
D7-N-MeFOSE (surr.)	1	%	91	-	-	-
D9-N-EtFOSE (surr.)	1	%	97	-	-	-
D5-N-EtFOSAA (surr.)	1	%	147	-	-	-
D3-N-MeFOSAA (surr.)	1	%	160	-	-	-
Perfluoroalkyl sulfonic acids (PFASs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 37	-	-	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	106	-	-	-
18O2-PFHxS (surr.)	1	%	99	-	-	-
13C8-PFOS (surr.)	1	%	97	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	-	-	-
13C2-4:2 FTSA (surr.)	1	%	84	-	-	-
13C2-6:2 FTSA (surr.)	1	%	84	-	-	-
13C2-8:2 FTSA (surr.)	1	%	113	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	37	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	37	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	37	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	37	-	-	-
Sum of PFASs (n=28)*	50	ug/kg	< 50	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	7.8	4.4	4.2	14
Cadmium	0.4	mg/kg	1.1	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	16	16	21
Copper	5	mg/kg	210	23	21	12

Client Sample ID			BH6M_0.2-0.3	BH6M_0.7-0.8	BH6M_1.2-1.3	BH6M_1.7-1.8
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26912	S18-De26913	S18-De26914	S18-De26915
Date Sampled			Dec 19, 2018	Dec 19, 2018	Dec 19, 2018	Dec 17, 2018
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	390	55	37	21
Mercury	0.1	mg/kg	0.6	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	15	< 5	< 5	< 5
Zinc	5	mg/kg	720	130	110	15
% Moisture	1	%	6.6	12	14	8.6

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
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	25	< 20	< 20
TRH C15-C28	50	mg/kg	1000	< 50	< 50
TRH C29-C36	50	mg/kg	320	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	1345	< 50	< 50
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	%	67	67	67
Volatile Organics					
1.1-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
Volatile Organics					
Allyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Bromobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromoform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Bromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon disulfide	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloroform	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Iodomethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	< 0.5	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Methylene Chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Styrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3
Total MAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr.)	1	%	67	67	67
Toluene-d8 (surr.)	1	%	70	70	71
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	53	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	53	< 50	< 50
TRH >C16-C34	100	mg/kg	1200	< 100	< 100
TRH >C34-C40	100	mg/kg	180	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	1433	< 100	< 100

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	69	3.3	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	71	3.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	74	3.8	1.2
Acenaphthene	0.5	mg/kg	< 5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	7.8	< 0.5	< 0.5
Anthracene	0.5	mg/kg	36	0.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	57	2.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	52	2.5	< 0.5
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	55	2.9	< 0.5
Benzo(g,h,i)perylene	0.5	mg/kg	35	1.9	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	22	1.1	< 0.5
Chrysene	0.5	mg/kg	49	2.2	< 0.5
Dibenz(a,h)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	170	5.7	< 0.5
Fluorene	0.5	mg/kg	9.3	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	26	1.4	< 0.5
Naphthalene	0.5	mg/kg	< 5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	150	2.6	< 0.5
Pyrene	0.5	mg/kg	150	5.3	< 0.5
Total PAH*	0.5	mg/kg	819.1	28.7	< 0.5
2-Fluorobiphenyl (surr.)	1	%	130	132	128
p-Terphenyl-d14 (surr.)	1	%	123	133	131
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.5	< 0.1	-
4,4'-DDD	0.05	mg/kg	< 0.5	< 0.05	-
4,4'-DDE	0.05	mg/kg	< 0.5	< 0.05	-
4,4'-DDT	0.05	mg/kg	< 0.5	< 0.05	-
a-BHC	0.05	mg/kg	< 0.5	< 0.05	-
Aldrin	0.05	mg/kg	< 0.5	< 0.05	-
b-BHC	0.05	mg/kg	< 0.5	< 0.05	-
d-BHC	0.05	mg/kg	< 0.5	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.5	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.5	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.5	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.05	-
Endrin	0.05	mg/kg	< 0.5	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.5	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 1	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.5	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.05	-
Methoxychlor	0.2	mg/kg	< 2	< 0.2	-
Toxaphene	1	mg/kg	< 10	< 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	-
Dibutylchloroendate (surr.)	1	%	INT	INT	-
Tetrachloro-m-xylene (surr.)	1	%	104	59	-

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
Organophosphorus Pesticides					
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-
Coumaphos	2	mg/kg	< 2	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-
Monocrotophos	2	mg/kg	< 2	< 2	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-
Omethoate	2	mg/kg	< 2	< 2	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-
Triphenylphosphate (surr.)	1	%	114	INT	-
Polychlorinated Biphenyls					
Aroclor-1016	0.5	mg/kg	< 5	< 0.5	-
Aroclor-1221	0.1	mg/kg	< 5	< 0.1	-
Aroclor-1232	0.5	mg/kg	< 5	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 5	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 5	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 5	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 5	< 0.5	-
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	INT	INT	-
Tetrachloro-m-xylene (surr.)	1	%	104	59	-

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoropentanoic acid (PFPeA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorohexanoic acid (PFHxA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroheptanoic acid (PFHpA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorooctanoic acid (PFOA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorononanoic acid (PFNA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorodecanoic acid (PFDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroundecanoic acid (PFUnDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorododecanoic acid (PFDoDA) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluorotridecanoic acid (PFTrDA) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	5	ug/kg	< 5	< 5	-
13C4-PFBA (surr.)	1	%	101	103	-
13C5-PFPeA (surr.)	1	%	103	100	-
13C5-PFHxA (surr.)	1	%	96	97	-
13C4-PFHpA (surr.)	1	%	107	107	-
13C8-PFOA (surr.)	1	%	108	109	-
13C5-PFNA (surr.)	1	%	117	114	-
13C6-PFDA (surr.)	1	%	112	113	-
13C2-PFUnDA (surr.)	1	%	121	125	-
13C2-PFDoDA (surr.)	1	%	130	130	-
13C2-PFTeDA (surr.)	1	%	142	139	-
Perfluoroalkyl sulfonamido substances					
Perfluorooctane sulfonamide (FOSA) ^{N11}	5	ug/kg	< 5	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	5	ug/kg	< 5	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	5	ug/kg	< 5	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	5	ug/kg	< 5	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	5	ug/kg	< 5	< 5	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	10	ug/kg	< 10	< 10	-
13C8-FOSA (surr.)	1	%	71	68	-
D3-N-MeFOSA (surr.)	1	%	99	98	-
D5-N-EtFOSA (surr.)	1	%	107	112	-
D7-N-MeFOSE (surr.)	1	%	92	95	-
D9-N-EtFOSE (surr.)	1	%	99	99	-
D5-N-EtFOSAA (surr.)	1	%	162	156	-
D3-N-MeFOSAA (surr.)	1	%	169	167	-
Perfluoroalkyl sulfonic acids (PFSA)					
Perfluorobutanesulfonic acid (PFBS) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	5	ug/kg	< 5	< 5	-
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	5	ug/kg	< 5	< 5	-
Perfluorooctanesulfonic acid (PFOS) ^{N11}	5	ug/kg	^{N09} 7.9	< 5	-
Perfluorodecanesulfonic acid (PFDS) ^{N15}	5	ug/kg	< 5	< 5	-
13C3-PFBS (surr.)	1	%	110	109	-
18O2-PFHxS (surr.)	1	%	111	109	-
13C8-PFOS (surr.)	1	%	101	92	-

Client Sample ID			G01 BH9M_0.2-0.3	BH1M 0.2-0.3	BH1M 0.7-0.8
Sample Matrix			Soil	Soil	Soil
Eurofins mgt Sample No.			S18-De26916	S18-De31571	S18-De31572
Date Sampled			Dec 19, 2018	Dec 20, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	10	ug/kg	< 10	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	5	ug/kg	< 5	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	5	ug/kg	< 5	< 5	-
13C2-4:2 FTSA (surr.)	1	%	109	102	-
13C2-6:2 FTSA (surr.)	1	%	93	98	-
13C2-8:2 FTSA (surr.)	1	%	172	158	-
PFASs Summations					
Sum (PFHxS + PFOS)*	5	ug/kg	7.9	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	7.9	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	7.9	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	-
Sum of PFASs (n=28)*	50	ug/kg	< 50	< 50	-
Heavy Metals					
Arsenic	2	mg/kg	7.0	5.5	4.6
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4
Chromium	5	mg/kg	14	12	19
Copper	5	mg/kg	110	28	17
Lead	5	mg/kg	310	220	36
Mercury	0.1	mg/kg	0.2	0.5	< 0.1
Nickel	5	mg/kg	8.9	6.3	< 5
Zinc	5	mg/kg	360	130	19
% Moisture	1	%	14	5.2	6.1

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 (regarding both quality and NATA accreditation).

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 08, 2019	14 Day
BTEX - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jan 08, 2019	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 08, 2019	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 08, 2019	14 Day
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Jan 08, 2019	14 Days
Organochlorine Pesticides - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Jan 08, 2019	14 Day
Organophosphorus Pesticides - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS	Sydney	Jan 08, 2019	14 Day
Polychlorinated Biphenyls - Method: LTM-ORG-2220 OCP & PCB in Soil and Water	Sydney	Jan 08, 2019	28 Days
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Jan 08, 2019	28 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jan 08, 2019	7 Days
Eurofins mgt Suite B7A			
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Jan 08, 2019	14 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Sydney	Jan 08, 2019	14 Days
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 10, 2019	180 Day
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 10, 2019	180 Day
Perfluoroalkyl sulfonic acids (PFASs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 10, 2019	180 Day
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 10, 2019	180 Day
% Moisture - Method: LTM-GEN-7080 Moisture	Sydney	Jan 07, 2019	14 Day

Company Name:	El Australia	Order No.:		Received:	Dec 20, 2018 9:45 AM
Address:	Suite 6.01, 55 Miller Street	Report #:	634500	Due:	Jan 9, 2019
	Pyrmont	Phone:	02 9516 0722	Priority:	10 Day
	NSW 2009	Fax:		Contact Name:	Micaela Green
Project Name:	182-198 VICTORIA ROAD MARRICKVILLE NSW				
Project ID:	E24098				
Eurofins mgt Analytical Services Manager : Nibha Vaidya					

Sample Detail						HOLD	Phenols (W/RG 621)	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B7A	Per - and Polyfluoroalkyl Substances (PFASs)	El Australia Waste Class. TRH/BTEXN/PAH/OC/POPP/Meals		
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217														X	X
Brisbane Laboratory - NATA Site # 20794															
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
1	BH6M_0.2-0.3	Dec 19, 2018		Soil	S18-De26912		X	X	X			X	X		
2	BH6M_0.7-0.8	Dec 19, 2018		Soil	S18-De26913			X	X		X				
3	BH6M_1.2-1.3	Dec 19, 2018		Soil	S18-De26914			X	X		X				
4	BH6M_1.7-1.8	Dec 17, 2018		Soil	S18-De26915			X	X		X				
5	BH9M_0.2-0.3	Dec 19, 2018		Soil	S18-De26916			X	X			X	X		
6	BH9M_0.7-0.8	Dec 19, 2018		Soil	S18-De26917	X									
7	BH9M_1.4-1.5	Dec 19, 2018		Soil	S18-De26918	X									
8	BH9M_3.5-3.6	Dec 19, 2018		Soil	S18-De26919	X									
9	BH9M_4.5-4.6	Dec 19, 2018		Soil	S18-De26920	X									

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 634500
Phone: 02 9516 0722
Fax:

Received: Dec 20, 2018 9:45 AM
Due: Jan 9, 2019
Priority: 10 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						HOLD	Phenols (IWRG 621)	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B7A	Per - and Polyfluoroalkyl Substances (PFASs)	EI Australia Waste Class:TRH/BTEXN/P AH/OCP/OPP/ Metals
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794												X	
Perth Laboratory - NATA Site # 23736													
10	BH1M 0.2-0.3	Dec 20, 2018		Soil	S18-De31571			X	X			X	X
11	BH1M 0.7-0.8	Dec 20, 2018		Soil	S18-De31572			X	X	X			
12	BH1M 1.7-1.8	Dec 20, 2018		Soil	S18-De31573	X							
Test Counts						5	1	7	7	1	3	3	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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	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	
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	< 1			1	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	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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTriDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			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	
TRH C10-C14	%	85			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	115			70-130	Pass	
m&p-Xylenes	%	114			70-130	Pass	
o-Xylene	%	106			70-130	Pass	
Xylenes - Total	%	111			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	114			70-130	Pass	
1.1.1-Trichloroethane	%	104			70-130	Pass	
1.2-Dichlorobenzene	%	111			70-130	Pass	
1.2-Dichloroethane	%	103			70-130	Pass	
Trichloroethene	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	122			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	92			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	105			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	104			70-130	Pass	
Benzo(g,h,i)perylene	%	112			70-130	Pass	
Benzo(k)fluoranthene	%	99			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a,h)anthracene	%	100			70-130	Pass	
Fluoranthene	%	108			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	105			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Organochlorine Pesticides							
4.4'-DDD	%	104			70-130	Pass	
4.4'-DDE	%	101			70-130	Pass	
4.4'-DDT	%	106			70-130	Pass	
a-BHC	%	105			70-130	Pass	
Aldrin	%	104			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	102			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	100			70-130	Pass	
Endosulfan sulphate	%	100			70-130	Pass	
Endrin	%	124			70-130	Pass	
Endrin aldehyde	%	91			70-130	Pass	
Endrin ketone	%	93			70-130	Pass	
g-BHC (Lindane)	%	106			70-130	Pass	
Heptachlor	%	111			70-130	Pass	
Heptachlor epoxide	%	103			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	124			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	95			70-130	Pass	
Dimethoate	%	93			70-130	Pass	
Ethion	%	91			70-130	Pass	
Fenitrothion	%	91			70-130	Pass	
Methyl parathion	%	112			70-130	Pass	
Mevinphos	%	123			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	110			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	96			30-130	Pass	
2.4-Dichlorophenol	%	110			30-130	Pass	
2.4.5-Trichlorophenol	%	115			30-130	Pass	
2.4.6-Trichlorophenol	%	117			30-130	Pass	
2.6-Dichlorophenol	%	115			30-130	Pass	
4-Chloro-3-methylphenol	%	93			30-130	Pass	
Pentachlorophenol	%	79			30-130	Pass	
Tetrachlorophenols - Total	%	103			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	99			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	71			30-130	Pass	
2-Methylphenol (o-Cresol)	%	89			30-130	Pass	
2-Nitrophenol	%	111			30-130	Pass	
2.4-Dimethylphenol	%	85			30-130	Pass	
2.4-Dinitrophenol	%	109			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	91			30-130	Pass	
4-Nitrophenol	%	84			30-130	Pass	
Dinoseb	%	99			30-130	Pass	
Phenol	%	96			30-130	Pass	
LCS - % Recovery							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl carboxylic acids (PFCAs)									
Perfluorobutanoic acid (PFBA)			%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)			%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)			%	95			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)			%	98			50-150	Pass	
Perfluorooctanoic acid (PFOA)			%	100			50-150	Pass	
Perfluorononanoic acid (PFNA)			%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)			%	93			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)			%	99			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)			%	94			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)			%	100			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)			%	97			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonamido substances									
Perfluorooctane sulfonamide (FOSA)			%	99			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	100			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	103			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)			%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)			%	87			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	97			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	96			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorobutanesulfonic acid (PFBS)			%	88			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	102			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	124			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	61			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)			%	102			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	99			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	131			50-150	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	104			70-130	Pass	
Cadmium			%	106			70-130	Pass	
Chromium			%	103			70-130	Pass	
Copper			%	104			70-130	Pass	
Lead			%	107			70-130	Pass	
Mercury			%	122			70-130	Pass	
Nickel			%	112			70-130	Pass	
Zinc			%	110			70-130	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 C6-C9	S18-De27460	NCP	%	87			70-130	Pass	
TRH C10-C14	S19-Ja01629	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S18-De31597	NCP	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S18-De31597	NCP	%	80			70-130	Pass	
Ethylbenzene	S18-De31597	NCP	%	102			70-130	Pass	
m&p-Xylenes	S18-De31597	NCP	%	101			70-130	Pass	
o-Xylene	S18-De31597	NCP	%	98			70-130	Pass	
Xylenes - Total	S18-De31597	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	S18-De26865	NCP	%	76			70-130	Pass	
1.1.1-Trichloroethane	S18-De31597	NCP	%	89			70-130	Pass	
1.2-Dichlorobenzene	S18-De31597	NCP	%	107			70-130	Pass	
1.2-Dichloroethane	S18-De31597	NCP	%	88			70-130	Pass	
Trichloroethene	S18-De31597	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S18-De31597	NCP	%	102			70-130	Pass	
TRH C6-C10	S18-De27460	NCP	%	83			70-130	Pass	
TRH >C10-C16	S19-Ja01629	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S19-Ja02057	NCP	%	84			70-130	Pass	
Acenaphthylene	S19-Ja02057	NCP	%	86			70-130	Pass	
Anthracene	S19-Ja02057	NCP	%	100			70-130	Pass	
Benz(a)anthracene	S19-Ja02057	NCP	%	100			70-130	Pass	
Benzo(a)pyrene	S19-Ja02057	NCP	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	S19-Ja02057	NCP	%	109			70-130	Pass	
Benzo(g,h,i)perylene	S19-Ja02057	NCP	%	110			70-130	Pass	
Benzo(k)fluoranthene	S19-Ja02057	NCP	%	92			70-130	Pass	
Chrysene	S19-Ja02057	NCP	%	98			70-130	Pass	
Dibenz(a,h)anthracene	S19-Ja02057	NCP	%	110			70-130	Pass	
Fluoranthene	S19-Ja02057	NCP	%	96			70-130	Pass	
Fluorene	S19-Ja02057	NCP	%	93			70-130	Pass	
Indeno(1,2,3-cd)pyrene	S19-Ja02057	NCP	%	110			70-130	Pass	
Naphthalene	S19-Ja02057	NCP	%	81			70-130	Pass	
Phenanthrene	S19-Ja02057	NCP	%	105			70-130	Pass	
Pyrene	S19-Ja02057	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4,4'-DDD	S18-De31597	NCP	%	127			70-130	Pass	
4,4'-DDE	S18-De31597	NCP	%	121			70-130	Pass	
4,4'-DDT	S18-De31597	NCP	%	125			70-130	Pass	
a-BHC	S18-De31597	NCP	%	125			70-130	Pass	
Aldrin	S18-De31597	NCP	%	125			70-130	Pass	
b-BHC	S18-De31597	NCP	%	120			70-130	Pass	
d-BHC	S18-De31597	NCP	%	125			70-130	Pass	
Dieldrin	S18-De31597	NCP	%	121			70-130	Pass	
Endosulfan I	S18-De31597	NCP	%	121			70-130	Pass	
Endosulfan II	S18-De31597	NCP	%	120			70-130	Pass	
Endosulfan sulphate	S18-De31597	NCP	%	119			70-130	Pass	
Endrin aldehyde	S18-De31597	NCP	%	107			70-130	Pass	
Endrin ketone	S18-De31597	NCP	%	111			70-130	Pass	
g-BHC (Lindane)	S18-De31597	NCP	%	127			70-130	Pass	
Heptachlor	S18-De28985	NCP	%	113			70-130	Pass	
Heptachlor epoxide	S18-De31597	NCP	%	124			70-130	Pass	
Hexachlorobenzene	S18-De31597	NCP	%	119			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor	S18-De28985	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S19-Ja01415	NCP	%	77			70-130	Pass	
Dimethoate	S19-Ja01415	NCP	%	80			70-130	Pass	
Ethion	S18-De31339	NCP	%	106			70-130	Pass	
Fenitrothion	S18-De31339	NCP	%	115			70-130	Pass	
Methyl parathion	S18-De31339	NCP	%	122			70-130	Pass	
Mevinphos	S18-De31339	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S18-De31597	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	S19-Ja01415	NCP	%	164			30-130	Fail	Q08
2,4-Dichlorophenol	S19-Ja01415	NCP	%	110			30-130	Pass	
2,4,5-Trichlorophenol	S19-Ja01415	NCP	%	38			30-130	Pass	
2,4,6-Trichlorophenol	S19-Ja01415	NCP	%	40			30-130	Pass	
2,6-Dichlorophenol	S19-Ja01415	NCP	%	38			30-130	Pass	
4-Chloro-3-methylphenol	S19-Ja01415	NCP	%	179			30-130	Fail	Q08
Pentachlorophenol	S19-Ja01415	NCP	%	77			30-130	Pass	
Tetrachlorophenols - Total	S19-Ja01415	NCP	%	25			30-130	Fail	Q08
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4,6-dinitrophenol	S19-Ja01415	NCP	%	101			30-130	Pass	
2-Methyl-4,6-dinitrophenol	S19-Ja01415	NCP	%	152			30-130	Fail	Q08
2-Methylphenol (o-Cresol)	S19-Ja01415	NCP	%	168			30-130	Fail	Q08
2-Nitrophenol	S19-Ja01415	NCP	%	47			30-130	Pass	
2,4-Dimethylphenol	S19-Ja01415	NCP	%	175			30-130	Fail	Q08
2,4-Dinitrophenol	S19-Ja01415	NCP	%	102			70-130	Pass	
3&4-Methylphenol (m&p-Cresol)	S19-Ja01415	NCP	%	181			30-130	Fail	Q08
4-Nitrophenol	S19-Ja01415	NCP	%	17			30-130	Fail	Q08
Dinoseb	S19-Ja01415	NCP	%	246			30-130	Fail	Q08
Phenol	S19-Ja01415	NCP	%	180			30-130	Fail	Q08
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M19-Ja05276	NCP	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M19-Ja05276	NCP	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M19-Ja05276	NCP	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M19-Ja05276	NCP	%	98			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M19-Ja05276	NCP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	M19-Ja05276	NCP	%	95			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M19-Ja05276	NCP	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M19-Ja05276	NCP	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M19-Ja05276	NCP	%	99			50-150	Pass	
Perfluorotridecanoic acid (PFTeDA)	M19-Ja05276	NCP	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M19-Ja05276	NCP	%	92			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M19-Ja05276	NCP	%	102			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M19-Ja05276	NCP	%	94			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M19-Ja05276	NCP	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	M19-Ja05276	NCP	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	M19-Ja05276	NCP	%	82			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M19-Ja05276	NCP	%	91			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M19-Ja05276	NCP	%	87			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFASs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M19-Ja05276	NCP	%	90			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M19-Ja05276	NCP	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M19-Ja05276	NCP	%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M19-Ja05276	NCP	%	100			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M19-Ja05276	NCP	%	81			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M19-Ja05276	NCP	%	57			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M19-Ja05276	NCP	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	M19-Ja05276	NCP	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M19-Ja05276	NCP	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M19-Ja05276	NCP	%	116			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Copper	S19-Ja02067	NCP	%	117			70-130	Pass	
Lead	S18-De29097	NCP	%	104			70-130	Pass	
Zinc	S19-Ja02067	NCP	%	128			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S18-De26916	CP	%	106			70-130	Pass	
Cadmium	S18-De26916	CP	%	111			70-130	Pass	
Chromium	S18-De26916	CP	%	98			70-130	Pass	
Mercury	S18-De26916	CP	%	119			70-130	Pass	
Nickel	S18-De26916	CP	%	108			70-130	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	S18-De31596	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate								
BTX				Result 1	Result 2	RPD		
Benzene	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Toluene	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Ethylbenzene	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
m&p-Xylenes	S18-De31596	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
o-Xylene	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Xylenes - Total	S18-De31596	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass
Duplicate								
Volatile Organics				Result 1	Result 2	RPD		
1.1-Dichloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1-Dichloroethene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1-Trichloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.1.2-Tetrachloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2-Trichloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.1.2.2-Tetrachloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dibromoethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichlorobenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2-Dichloropropane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.3-Trichloropropane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.2.4-Trimethylbenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichlorobenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3-Dichloropropane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.3.5-Trimethylbenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
1.4-Dichlorobenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Butanone (MEK)	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2-Propanone (Acetone)	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chlorotoluene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Methyl-2-pentanone (MIBK)	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Allyl chloride	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromobenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromochloromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromodichloromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromoform	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Bromomethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon disulfide	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Carbon Tetrachloride	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chlorobenzene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloroform	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chloromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.2-Dichloroethene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
cis-1.3-Dichloropropene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromochloromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibromomethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dichlorodifluoromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Iodomethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Isopropyl benzene (Cumene)	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Methylene Chloride	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Styrene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Tetrachloroethene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.2-Dichloroethene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
trans-1.3-Dichloropropene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichloroethene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Trichlorofluoromethane	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Vinyl chloride	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
TRH C6-C10	S18-De31596	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g,h,i)perylene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a,h)anthracene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1,2,3-cd)pyrene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S18-De28989	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Organochlorine Pesticides				Result 1	Result 2	RPD		
Chlordanes - Total	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
4,4'-DDD	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDE	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
4,4'-DDT	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
a-BHC	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Aldrin	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
b-BHC	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
d-BHC	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Dieldrin	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan I	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan II	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endosulfan sulphate	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin aldehyde	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Endrin ketone	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
g-BHC (Lindane)	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Heptachlor epoxide	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Hexachlorobenzene	S18-De31596	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass
Methoxychlor	S18-De31596	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Toxaphene	S18-De31596	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S18-De28989	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Dichlorvos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfthion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S18-De28989	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S18-De28989	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S18-De28989	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Polychlorinated Biphenyls				Result 1	Result 2	RPD		
Aroclor-1016	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1221	S18-De31596	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Aroclor-1232	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1242	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1248	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1254	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Aroclor-1260	S18-De31596	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dichlorophenol	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4,5-Trichlorophenol	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4,6-Trichlorophenol	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,6-Dichlorophenol	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
4-Chloro-3-methylphenol	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Pentachlorophenol	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Tetrachlorophenols - Total	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	S19-Ja01414	NCP	mg/kg	< 20	< 20	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	S19-Ja01414	NCP	mg/kg	< 5	< 5	<1	30%	Pass
2-Methylphenol (o-Cresol)	S19-Ja01414	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
2-Nitrophenol	S19-Ja01414	NCP	mg/kg	< 1	< 1	<1	30%	Pass
2,4-Dimethylphenol	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
2,4-Dinitrophenol	S19-Ja01414	NCP	mg/kg	< 5	< 5	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S19-Ja01414	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
4-Nitrophenol	S19-Ja01414	NCP	mg/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
Dinoseb	S19-Ja01414	NCP	mg/kg	< 20	< 20	<1	30%	Pass
Phenol	S19-Ja01414	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Ja02066	NCP	mg/kg	13	12	2.0	30%	Pass
Cadmium	S19-Ja02066	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C10-C14	S18-De26915	CP	mg/kg	26	30	16	30%	Pass
TRH C15-C28	S18-De26915	CP	mg/kg	52	63	20	30%	Pass
TRH C29-C36	S18-De26915	CP	mg/kg	< 50	55	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S18-De26915	CP	mg/kg	< 50	< 50	<1	30%	Pass
TRH >C16-C34	S18-De26915	CP	mg/kg	< 100	< 100	<1	30%	Pass
TRH >C34-C40	S18-De26915	CP	mg/kg	< 100	< 100	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Chromium	S18-De26915	CP	mg/kg	21	26	19	30%	Pass
Copper	S18-De26915	CP	mg/kg	12	14	14	30%	Pass
Lead	S18-De26915	CP	mg/kg	21	19	9.0	30%	Pass
Mercury	S18-De26915	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass
Nickel	S18-De26915	CP	mg/kg	< 5	< 5	<1	30%	Pass
Zinc	S18-De26915	CP	mg/kg	15	17	16	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
% Moisture	S18-De26915	CP	%	8.6	5.3	47	30%	Fail
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanoic acid (PFHxA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanoic acid (PFOA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorononanoic acid (PFNA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass

Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S18-De31571	CP	ug/kg	< 10	< 10	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S18-De31571	CP	ug/kg	< 10	< 10	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S18-De31571	CP	ug/kg	< 10	< 10	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S18-De31571	CP	ug/kg	< 5	< 5	<1	30%	Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

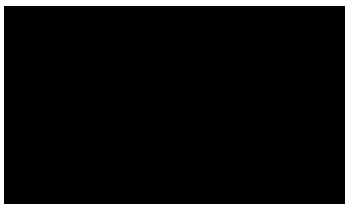
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted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

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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 mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Nibha Vaidya	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Organic (QLD)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)



General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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

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 (regarding both quality and NATA accreditation).

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

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Dec 20, 2018	7 Day
BTEX - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Dec 20, 2018	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Dec 20, 2018	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Dec 20, 2018	7 Day
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Dec 20, 2018	28 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 633990
Phone: 02 9516 0722
Fax:

Received: Dec 20, 2018 9:45 AM
Due: Jan 8, 2019
Priority: 10 Day
Contact Name: - SRA/RESULTS

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos - AS4964	HOLD	Acid Sulfate Soils Field pH Test	Phenols (WRC 621)	BTEX	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B6	Per - and Polyfluoroalkyl Substances (PFASs)	EI Australia Waste Class:TRH/BTEXN/P/AH/OCP/OPP/PP/Metals
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X		X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794								X							X	
Perth Laboratory - NATA Site # 23736																
External Laboratory																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID											
1	BH2_0.2-0.3	Dec 17, 2018		Soil	S18-De26864						X	X			X	X
2	BH2_1.8-1.9	Dec 17, 2018		Soil	S18-De26865						X	X	X			
3	BH3M_0.3-0.4	Dec 17, 2018		Soil	S18-De26866						X	X			X	X
4	BH3M_1.7-1.8	Dec 17, 2018		Soil	S18-De26867						X	X	X			
5	BH7_0.2-0.3	Dec 18, 2018		Soil	S18-De26868						X	X			X	X
6	BH7_1.4-1.5	Dec 18, 2018		Soil	S18-De26869			X				X	X			
7	BH7_2.4-2.5	Dec 18, 2018		Soil	S18-De26870			X								
8	BH7_3.1-3.2	Dec 18, 2018		Soil	S18-De26871			X								
9	BH7_4.0-4.1	Dec 18, 2018		Soil	S18-De26872			X								

Company Name:	El Australia	Order No.:		Received:	Dec 20, 2018 9:45 AM
Address:	Suite 6.01, 55 Miller Street	Report #:	633990	Due:	Jan 8, 2019
	Pymont	Phone:	02 9516 0722	Priority:	10 Day
	NSW 2009	Fax:		Contact Name:	- SRA/RESULTS
Project Name:	182-198 VICTORIA ROAD MARRICKVILLE NSW				
Project ID:	E24098				
Eurofins mgt Analytical Services Manager : Nibha Vaidya					

Sample Detail						Asbestos - AS4964	HOLD	Acid Sulfate Soils Field pH Test	BTEX	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B6	Per - and Polyfluoralkyl Substances (PFASs)	E Australia Waste Class:TRH/BTEXN/PAH/OC/POP/PP/ Metals
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X	X		X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794								X						X	
Perth Laboratory - NATA Site # 23736															
10	BH10_0.3-0.4	Dec 17, 2018		Soil	S18-De26873				X		X	X		X	X
11	BH12_0.0-0.1	Dec 17, 2018		Soil	S18-De26874					X	X			X	X
12	BH12_0.7-0.8	Dec 17, 2018		Soil	S18-De26875					X	X	X			
13	BH13_0.3-0.4	Dec 17, 2018		Soil	S18-De26876					X	X			X	X
14	BH13_0.7-0.8	Dec 17, 2018		Soil	S18-De26877	X					X	X			
15	BH14M_0.2-0.3	Dec 18, 2018		Soil	S18-De26878					X	X			X	X
16	BH14M_1.2-1.3	Dec 18, 2018		Soil	S18-De26879			X		X	X	X			
17	BH14M_1.8-1.9	Dec 18, 2018		Soil	S18-De26880			X							
18	BH14M_2.9-3.0	Dec 18, 2018		Soil	S18-De26881			X							

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
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Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos - AS4964	HOLD	Acid Sulfate Soils Field pH Test	Phenols (WRC 621)	BTEX	Volatile Organics	Moisture Set	Eurofins mgt Suite B7	Eurofins mgt Suite B6	Per - and Polyfluoroalkyl Substances (PFASs)	EI Australia Waste Class:TRH/BTEXN/P/AH/OCP/OPP/PP/Metals
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X		X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794								X							X	
Perth Laboratory - NATA Site # 23736																
19	BH14M_3.8-3.9	Dec 18, 2018		Soil	S18-De26882			X								
20	QD1	Dec 18, 2018		Soil	S18-De26883							X		X		
21	QR1	Dec 18, 2018		Water	S18-De26884									X		
22	QTB1	Dec 18, 2018		Soil	S18-De26885					X						
23	QTS1	Dec 18, 2018		Soil	S18-De26886					X						
24	BH2_0.7-0.8	Dec 17, 2018		Soil	S18-De26897		X									
25	BH2_1.3-1.4	Dec 17, 2018		Soil	S18-De26898		X									
26	BH3M_1.0-1.1	Dec 17, 2018		Soil	S18-De26899		X									
27	BH3M_1.4-1.5	Dec 17, 2018		Soil	S18-De26900		X									
28	BH3M_2.5-2.6	Dec 17, 2018		Soil	S18-De26901		X									
29	BH3M_3.7-3.8	Dec 17, 2018		Soil	S18-De26902		X									

Received: Dec 20, 2018 9:45 AM
Due: Jan 8, 2019
Priority: 10 Day
Contact Name: - SRA/RESULTS

Sample Detail

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. 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. 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	Quality Systems Manual ver 5.1 US Department of Defense
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.1 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	71			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	100			70-130	Pass	
o-Xylene	%	106			70-130	Pass	
Xylenes - Total	%	102			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	125			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	110			70-130	Pass	
Cadmium	%	128			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium			%	115			70-130	Pass	
Copper			%	115			70-130	Pass	
Lead			%	113			70-130	Pass	
Mercury			%	122			70-130	Pass	
Nickel			%	115			70-130	Pass	
Zinc			%	111			70-130	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 C6-C9	S18-De27475	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S18-De27475	NCP	%	85			70-130	Pass	
Toluene	S18-De27475	NCP	%	92			70-130	Pass	
Ethylbenzene	S18-De27475	NCP	%	99			70-130	Pass	
m&p-Xylenes	S18-De27475	NCP	%	98			70-130	Pass	
o-Xylene	S18-De27475	NCP	%	106			70-130	Pass	
Xylenes - Total	S18-De27475	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S18-De27475	NCP	%	114			70-130	Pass	
TRH C6-C10	S18-De27475	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S18-De31272	NCP	%	95			70-130	Pass	
Cadmium	S18-De31272	NCP	%	108			70-130	Pass	
Chromium	S18-De31272	NCP	%	97			70-130	Pass	
Copper	S18-De31272	NCP	%	96			70-130	Pass	
Lead	S18-De31272	NCP	%	95			70-130	Pass	
Mercury	S18-De31272	NCP	%	100			70-130	Pass	
Nickel	S18-De31272	NCP	%	82			70-130	Pass	
Zinc	S18-De31272	NCP	%	93			70-130	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	S18-De27464	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S18-De27464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S18-De27464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S18-De27464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S18-De27464	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S18-De27464	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S18-De27464	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S18-De27464	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S18-De27464	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S18-De31272	NCP	mg/L	0.003	0.002	13	30%	Pass
Cadmium	S18-De31272	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium	S18-De31272	NCP	mg/L	0.009	0.008	16	30%	Pass
Copper	S18-De31272	NCP	mg/L	0.023	0.020	15	30%	Pass
Lead	S18-De31272	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury	S18-De31272	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	S18-De31272	NCP	mg/L	1.2	1.0	16	30%	Pass
Zinc	S18-De31272	NCP	mg/L	0.38	0.33	15	30%	Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

Sample Integrity

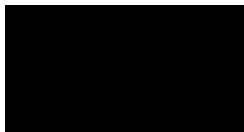
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

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.

Authorised By

Nibha Vaidya	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)



Glenn Jackson General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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

EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: **Micaela Green**

Report **635669-L**
 Project name **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
 Project ID **E24098**
 Received Date **Jan 14, 2019**

Client Sample ID			BH2_0.2-0.3
Sample Matrix			US Leachate
Eurofins mgt Sample No.			S19-Ja07244
Date Sampled			Dec 17, 2018
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	0.01	mg/L	0.18
USA Leaching Procedure			
Leachate Fluid ^{C01}		comment	1.0
pH (initial)	0.1	pH Units	7.6
pH (off)	0.1	pH Units	5.1
pH (USA HCl addition)	0.1	pH Units	1.8

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 (regarding both quality and NATA accreditation).

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
Heavy Metals - Method:	Sydney	Jan 15, 2019	180 Day
USA Leaching Procedure - Method:	Sydney	Jan 14, 2019	14 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 635669
Phone: 02 9516 0722
Fax:

Received: Jan 14, 2019 4:25 PM
Due: Jan 15, 2019
Priority: 1 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Lead	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH2 0.2-0.3	Dec 17, 2018		US Leachate	S19-Ja07244	X	X
Test Counts						1	1

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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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										
Lead				mg/L	< 0.01			0.01	Pass	
LCS - % Recovery										
Heavy Metals										
Lead				%	89			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Lead					Result 1					
Lead				S19-Ja07244	CP	%	104		70-130	Pass
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Lead					Result 1	Result 2	RPD			
Lead				S19-Ja06852	NCP	mg/L	0.02	0.02	6.0	30% Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

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
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

Nibha Vaidya	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal (NSW)

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: **Micaela Green**

Report **635668-L**
 Project name **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
 Project ID **E24098**
 Received Date **Jan 14, 2019**

Client Sample ID			BH6M_0.2-0.3	BH9M_0.2-0.3	BH1M 0.2-0.3
Sample Matrix			US Leachate	US Leachate	US Leachate
Eurofins mgt Sample No.			S19-Ja07241	S19-Ja07242	S19-Ja07243
Date Sampled			Dec 19, 2018	Dec 19, 2018	Dec 20, 2018
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	< 0.001	-
Acenaphthylene	0.001	mg/L	-	< 0.001	-
Anthracene	0.001	mg/L	-	< 0.001	-
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	-	< 0.001	-
Benzo(g,h,i)perylene	0.001	mg/L	-	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-
Chrysene	0.001	mg/L	-	< 0.001	-
Dibenz(a,h)anthracene	0.001	mg/L	-	< 0.001	-
Fluoranthene	0.001	mg/L	-	< 0.001	-
Fluorene	0.001	mg/L	-	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-
Naphthalene	0.001	mg/L	-	< 0.001	-
Phenanthrene	0.001	mg/L	-	< 0.001	-
Pyrene	0.001	mg/L	-	< 0.001	-
Total PAH*	0.002	mg/L	-	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	-	77	-
p-Terphenyl-d14 (surr.)	1	%	-	88	-
Heavy Metals					
Lead	0.01	mg/L	0.18	0.15	-
USA Leaching Procedure					
Leachate Fluid ^{C01}		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	9.3	9.5	8.8
pH (off)	0.1	pH Units	5.5	5.4	5.2
pH (USA HCl addition)	0.1	pH Units	1.8	1.8	1.8

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 (regarding both quality and NATA accreditation).

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 - Method:	Sydney	Jan 14, 2019	7 Days
Heavy Metals - Method:	Sydney	Jan 15, 2019	180 Day
USA Leaching Procedure - Method:	Sydney	Jan 14, 2019	14 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 635668
Phone: 02 9516 0722
Fax:

Received: Jan 14, 2019 4:21 PM
Due: Jan 15, 2019
Priority: 1 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	Lead	Polycyclic Aromatic Hydrocarbons	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	BH6M 0.2-0.3	Dec 19, 2018		US Leachate	S19-Ja07241		X		X
2	BH9M 0.2-0.3	Dec 19, 2018		US Leachate	S19-Ja07242		X	X	X
3	BH1M 0.2-0.3	Dec 20, 2018		US Leachate	S19-Ja07243	X			X
Test Counts						1	2	1	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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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										
Lead				mg/L	< 0.01			0.01	Pass	
LCS - % Recovery										
Heavy Metals										
Lead				%	89			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Lead					Result 1					
Lead				%	104			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Lead					Result 1	Result 2	RPD			
Lead				mg/L	0.02	0.02	6.0	30%	Pass	

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

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
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
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

Nibha Vaidya	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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

EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: **Micaela Green**

Report **636740-L**
 Project name **ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW**
 Project ID **E24098**
 Received Date **Jan 21, 2019**

Client Sample ID			BH6M_1.2-1.3	BH7_1.4-1.5
Sample Matrix			US Leachate	US Leachate
Eurofins mgt Sample No.			S19-Ja15688	S19-Ja15923
Date Sampled			Dec 19, 2019	Dec 19, 2019
Test/Reference	LOR	Unit		
Heavy Metals				
Nickel	0.05	mg/L	< 0.05	< 0.05
USA Leaching Procedure				
Leachate Fluid ^{C01}		comment	1.0	1.0
pH (initial)	0.1	pH Units	6.6	6.0
pH (off)	0.1	pH Units	12	4.9
pH (USA HCl addition)	0.1	pH Units	1.5	1.5

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 (regarding both quality and NATA accreditation).

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
Heavy Metals - Method:	Sydney	Jan 23, 2019	180 Day
USA Leaching Procedure - Method:	Sydney	Jan 21, 2019	14 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: ADDITIONAL - 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 636740
Phone: 02 9516 0722
Fax:

Received: Jan 21, 2019 1:47 PM
Due: Jan 23, 2019
Priority: 2 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Nickel	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH6M_1.2-1.3	Dec 19, 2019		US Leachate	S19-Ja15688	X	X
2	BH7_1.4-1.5	Dec 19, 2019		US Leachate	S19-Ja15923	X	X
Test Counts						2	2

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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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										
Nickel				mg/L	< 0.05			0.05	Pass	
LCS - % Recovery										
Heavy Metals										
Nickel				%	86			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery										
Heavy Metals										
Nickel					Result 1					
Nickel				%	88			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1				Acceptance Limits	Pass Limits	Qualifying Code
Duplicate										
Heavy Metals										
Nickel					Result 1	Result 2	RPD			
Nickel				mg/L	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

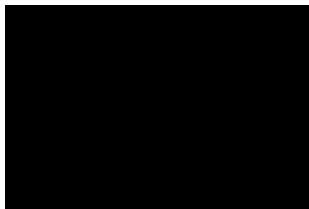
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted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

Qualifier Codes/Comments

Code	Description
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

Nibha Vaidya Analytical Services Manager
 Gabriele Cordero Senior Analyst-Metal (NSW)



General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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CERTIFICATE OF ANALYSIS 208682

Client Details

Client	El Australia
Attention	Lab Email
Address	Suite 6.01, 55 Miller Street, Pyrmont, NSW, 2009

Sample Details

Your Reference	<u>E24098, Marrickville</u>
Number of Samples	1 Soil
Date samples received	19/12/2018
Date completed instructions received	19/12/2018

Analysis Details

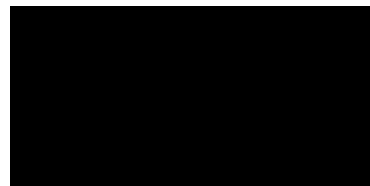
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	08/01/2019
Date of Issue	02/01/2019
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Results Approved By

Jeremy Faircloth, Organics Supervisor
Leon Ow, Chemist



Jacinta Hurst, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		208682-1
Your Reference	UNITS	QT1
Date Sampled		18/12/2018
Type of sample		Soil
Date extracted	-	27/12/2018
Date analysed	-	28/12/2018
TRH C ₆ - C ₉	mg/kg	<25
TRH C ₆ - C ₁₀	mg/kg	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	75

svTRH (C10-C40) in Soil		
Our Reference		208682-1
Your Reference	UNITS	QT1
Date Sampled		18/12/2018
Type of sample		Soil
Date extracted	-	27/12/2018
Date analysed	-	27/12/2018
TRH C ₁₀ - C ₁₄	mg/kg	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100
TRH >C ₁₀ -C ₁₆	mg/kg	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	89

PAHs in Soil		
Our Reference		208682-1
Your Reference	UNITS	QT1
Date Sampled		18/12/2018
Type of sample		Soil
Date extracted	-	27/12/2018
Date analysed	-	28/12/2018
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.2
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.4
Pyrene	mg/kg	0.4
Benzo(a)anthracene	mg/kg	0.2
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	0.3
Benzo(a)pyrene	mg/kg	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.1
Total +ve PAH's	mg/kg	2.0
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	100

Acid Extractable metals in soil		
Our Reference		208682-1
Your Reference	UNITS	QT1
Date Sampled		18/12/2018
Type of sample		Soil
Date prepared	-	27/12/2018
Date analysed	-	27/12/2018
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.4
Chromium	mg/kg	18
Copper	mg/kg	43
Lead	mg/kg	80
Mercury	mg/kg	0.1
Nickel	mg/kg	14
Zinc	mg/kg	200

Moisture		
Our Reference		208682-1
Your Reference	UNITS	QT1
Date Sampled		18/12/2018
Type of sample		Soil
Date prepared	-	27/12/2018
Date analysed	-	28/12/2018
Moisture	%	27

Method ID	Methodology Summary
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
Date analysed	-			28/12/2018	[NT]	[NT]	[NT]	[NT]	28/12/2018	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	95	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	[NT]	[NT]	92	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	92	[NT]
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	84	[NT]	[NT]	[NT]	[NT]	88	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
Date analysed	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	101	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-003	83	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: PAHs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
Date analysed	-			28/12/2018	[NT]	[NT]	[NT]	[NT]	28/12/2018	[NT]
Naphthalene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Acenaphthylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Phenanthrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012	<0.05	[NT]	[NT]	[NT]	[NT]	109	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012	102	[NT]	[NT]	[NT]	[NT]	97	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
Date analysed	-			27/12/2018	[NT]	[NT]	[NT]	[NT]	27/12/2018	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	110	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	

Laboratory Acceptance Criteria

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

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: Micaela Green

Report 635104-W
 Project name 182-198 VICTORIA ROAD MARRICKVILLE NSW
 Project ID E24098
 Received Date Jan 09, 2019

Client Sample ID			BH1M-1	BH3M-1	BH6M-1	BH9M-1
Sample Matrix			Water	Water	Water	Water
Eurofins mgt Sample No.			S19-Ja03030	S19-Ja03031	S19-Ja03032	S19-Ja03033
Date Sampled			Jan 09, 2019	Jan 09, 2019	Jan 09, 2019	Jan 09, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	0.005	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	0.004	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	0.007	< 0.003
4-Bromofluorobenzene (surr.)	1	%	110	83	66	82
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	0.011	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			BH1M-1 Water	BH3M-1 Water	BH6M-1 Water	BH9M-1 Water
Sample Matrix			S19-Ja03030	S19-Ja03031	S19-Ja03032	S19-Ja03033
Eurofins mgt Sample No.			Jan 09, 2019	Jan 09, 2019	Jan 09, 2019	Jan 09, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Volatile Organics						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	0.005	< 0.001
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	0.004	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	0.003	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	0.007	< 0.003
Total MAH*	0.003	mg/L	< 0.003	< 0.003	0.012	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	110	83	66	82
Toluene-d8 (surr.)	1	%	107	81	76	76
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			BH1M-1 Water	BH3M-1 Water	BH6M-1 Water	BH9M-1 Water
Sample Matrix			S19-Ja03030	S19-Ja03031	S19-Ja03032	S19-Ja03033
Eurofins mgt Sample No.			Jan 09, 2019	Jan 09, 2019	Jan 09, 2019	Jan 09, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
2-Fluorobiphenyl (surr.)	1	%	83	115	139	117
p-Terphenyl-d14 (surr.)	1	%	81	118	98	79
Phenols (Halogenated)						
2-Chlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4,5-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4,6-Trichlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,6-Dichlorophenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Phenols (non-Halogenated)						
2-Cyclohexyl-4,6-dinitrophenol	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
2-Methyl-4,6-dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2-Nitrophenol	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dimethylphenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
2,4-Dinitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	< 0.006	< 0.006	< 0.006
4-Nitrophenol	0.03	mg/L	< 0.03	< 0.03	< 0.03	< 0.03
Dinoseb	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
Phenol-d6 (surr.)	1	%	80	91	59	58
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	^{N09} 0.03	< 0.01	^{N09} 0.02	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.08	< 0.01	^{N09} 0.02	< 0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.08	< 0.01	^{N09} 0.04	< 0.01
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			BH1M-1 Water	BH3M-1 Water	BH6M-1 Water	BH9M-1 Water
Sample Matrix			S19-Ja03030	S19-Ja03031	S19-Ja03032	S19-Ja03033
Eurofins mgt Sample No.			Jan 09, 2019	Jan 09, 2019	Jan 09, 2019	Jan 09, 2019
Date Sampled						
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	0.03	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	70	94	83	72
13C5-PFPeA (surr.)	1	%	96	85	111	99
13C5-PFHxA (surr.)	1	%	106	121	114	106
13C4-PFHpA (surr.)	1	%	118	102	128	116
13C8-PFOA (surr.)	1	%	126	111	122	123
13C5-PFNA (surr.)	1	%	115	146	125	119
13C6-PFDA (surr.)	1	%	100	131	75	99
13C2-PFUnDA (surr.)	1	%	85	95	66	72
13C2-PFDoDA (surr.)	1	%	67	66	65	85
13C2-PFTeDA (surr.)	1	%	54	25	33	51
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	77	64	89	65
D3-N-MeFOSA (surr.)	1	%	24	14	46	INT
D5-N-EtFOSA (surr.)	1	%	25	13	41	INT
D7-N-MeFOSE (surr.)	1	%	57	43	49	29
D9-N-EtFOSE (surr.)	1	%	51	34	38	27
D5-N-EtFOSAA (surr.)	1	%	110	88	135	83
D3-N-MeFOSAA (surr.)	1	%	64	102	101	85
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	^{N09} 0.01	< 0.01	^{N09} 0.08	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	102	106	104	100
18O2-PFHxS (surr.)	1	%	102	82	97	107
13C8-PFOS (surr.)	1	%	107	117	78	102

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	BH1M-1 Water S19-Ja03030 Jan 09, 2019	BH3M-1 Water S19-Ja03031 Jan 09, 2019	BH6M-1 Water S19-Ja03032 Jan 09, 2019	BH9M-1 Water S19-Ja03033 Jan 09, 2019
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	106	199	92	87
13C2-6:2 FTSA (surr.)	1	%	103	93	99	88
13C2-8:2 FTSA (surr.)	1	%	111	INT	INT	INT
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.01	< 0.01	0.08	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.09	< 0.01	0.12	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.09	< 0.01	0.12	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.23	< 0.05	0.16	< 0.05
Sum of PFASs (n=28)*	0.1	ug/L	0.27	< 0.1	0.16	< 0.1
pH (at 25°C)	0.1	pH Units	6.6	6.4	5.9	6.5
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	0.003	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.058	0.064	0.050	0.082
Zinc (filtered)	0.005	mg/L	0.035	0.045	0.22	0.026

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled Test/Reference	LOR	Unit	GWQD1 Water S19-Ja03034 Jan 09, 2019	GWQR1 Water S19-Ja03035 Jan 09, 2019	GWQRB1 Water S19-Ja03036 Jan 09, 2019
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	-
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	-
TRH C10-36 (Total)	0.1	mg/L	< 0.1	< 0.1	-
BTEX					
Benzene	0.001	mg/L	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	0.001	-
Toluene	0.001	mg/L	-	-	0.001
Ethylbenzene	0.001	mg/L	0.006	< 0.001	-
m&p-Xylenes	0.002	mg/L	0.006	< 0.002	-
o-Xylene	0.001	mg/L	0.003	< 0.001	-
Xylenes - Total	0.003	mg/L	0.009	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	95	91	-

Client Sample ID			GWQD1	GWQR1	GWQRB1
Sample Matrix			Water	Water	Water
Eurofins mgt Sample No.			S19-Ja03034	S19-Ja03035	S19-Ja03036
Date Sampled			Jan 09, 2019	Jan 09, 2019	Jan 09, 2019
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene ^{N02}	0.01	mg/L	< 0.01	< 0.01	-
TRH C6-C10	0.02	mg/L	0.02	< 0.02	-
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05	< 0.05	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-
Heavy Metals					
Arsenic	0.001	mg/L	-	< 0.001	-
Arsenic (filtered)	0.001	mg/L	< 0.001	-	-
Cadmium	0.0002	mg/L	-	< 0.0002	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	-
Chromium	0.001	mg/L	-	< 0.001	-
Chromium (filtered)	0.001	mg/L	0.001	-	-
Copper	0.001	mg/L	-	< 0.001	-
Copper (filtered)	0.001	mg/L	0.003	-	-
Lead	0.001	mg/L	-	< 0.001	-
Lead (filtered)	0.001	mg/L	< 0.001	-	-
Mercury	0.0001	mg/L	-	< 0.0001	-
Mercury (filtered)	0.0001	mg/L	< 0.0001	-	-
Nickel	0.001	mg/L	-	< 0.001	-
Nickel (filtered)	0.001	mg/L	0.052	-	-
Zinc	0.005	mg/L	-	< 0.005	-
Zinc (filtered)	0.005	mg/L	0.24	-	-

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 (regarding both quality and NATA accreditation).

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 mgt Suite B7A (filtered metals)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 10, 2019	7 Day
BTEX - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Sydney	Jan 17, 2019	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 10, 2019	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Sydney	Jan 10, 2019	7 Day
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 10, 2019	7 Day
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 10, 2019	7 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 10, 2019	7 Day
Metals M8 filtered - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jan 17, 2019	28 Day
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Melbourne	Jan 10, 2019	7 Days
pH (at 25°C) - Method: LTM-GEN-7090 pH in water by ISE	Melbourne	Jan 10, 2019	0 Hours
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Jan 10, 2019	28 Day
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA ROAD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 635104
Phone: 02 9516 0722
Fax:

Received: Jan 9, 2019 3:35 PM
Due: Jan 16, 2019
Priority: 5 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						pH (at 25°C)	Toluene	Metals M8	Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Eurofins mgt Suite B1	Eurofins mgt Suite B7A (filtered metals)	Per - and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217							X	X		X		X	X	X	
Brisbane Laboratory - NATA Site # 20794															X
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID										
1	BH1M-1	Jan 09, 2019		Water	S19-Ja03030	X					X			X	X
2	BH3M-1	Jan 09, 2019		Water	S19-Ja03031	X					X			X	X
3	BH6M-1	Jan 09, 2019		Water	S19-Ja03032	X					X			X	X
4	BH9M-1	Jan 09, 2019		Water	S19-Ja03033	X					X			X	X
5	GWQD1	Jan 09, 2019		Water	S19-Ja03034				X				X		
6	GWQR1	Jan 09, 2019		Water	S19-Ja03035			X		X		X			
7	GWQRB1	Jan 09, 2019		Water	S19-Ja03036		X								
8	GWQTB1	Jan 09, 2019		Soil	S19-Ja03037					X					
9	GWQTS1	Jan 09, 2019		Soil	S19-Ja03038					X					

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Sample Detail	pH (at 25°C)	Toluene	Metals M8	Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	Eurofins mgt Suite B1	Eurofins mgt Suite B7A (filtered metals)	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271	X			X		X	X	X	X	
Sydney Laboratory - NATA Site # 18217		X	X		X		X	X	X	
Brisbane Laboratory - NATA Site # 20794										X
Perth Laboratory - NATA Site # 23736										
Test Counts	4	1	1	1	3	4	1	1	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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2,4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2,4,5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2,4,6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2,6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4,6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2,4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2,4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSA's)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSA's)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	90			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	87			70-130	Pass	
Toluene	%	93			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	91			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total	%	92			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	90			70-130	Pass	
1.1.1-Trichloroethane	%	83			70-130	Pass	
1.2-Dichlorobenzene	%	86			70-130	Pass	
1.2-Dichloroethane	%	83			70-130	Pass	
Benzene	%	87			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	91			70-130	Pass	
Toluene	%	118			70-130	Pass	
Trichloroethene	%	83			70-130	Pass	
Xylenes - Total	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	111			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	92			70-130	Pass	
Chrysene	%	124			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Naphthalene	%	83			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Phenanthrene	%	122			70-130	Pass	
Pyrene	%	120			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	116			30-130	Pass	
2,4-Dichlorophenol	%	101			30-130	Pass	
2,4,5-Trichlorophenol	%	107			30-130	Pass	
2,4,6-Trichlorophenol	%	94			30-130	Pass	
2,6-Dichlorophenol	%	103			30-130	Pass	
4-Chloro-3-methylphenol	%	124			30-130	Pass	
Pentachlorophenol	%	84			30-130	Pass	
Tetrachlorophenols - Total	%	102			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	%	73			30-130	Pass	
2-Methyl-4,6-dinitrophenol	%	85			30-130	Pass	
2-Methylphenol (o-Cresol)	%	107			30-130	Pass	
2-Nitrophenol	%	82			30-130	Pass	
2,4-Dimethylphenol	%	93			30-130	Pass	
2,4-Dinitrophenol	%	114			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	98			30-130	Pass	
4-Nitrophenol	%	35			30-130	Pass	
Dinoseb	%	98			30-130	Pass	
Phenol	%	56			30-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	111			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	100			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	108			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	120			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	113			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	122			50-150	Pass	
Perfluorotridecanoic acid (PFTriDA)	%	81			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	142			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	124			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	51			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	134			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	108			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	105			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	113			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	88			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	98			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	77			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)			%	99			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	99			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	66			50-150	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	98			70-130	Pass	
Arsenic (filtered)			%	105			80-120	Pass	
Cadmium			%	99			70-130	Pass	
Cadmium (filtered)			%	98			80-120	Pass	
Chromium			%	101			70-130	Pass	
Chromium (filtered)			%	102			80-120	Pass	
Copper			%	103			70-130	Pass	
Copper (filtered)			%	96			80-120	Pass	
Lead			%	101			70-130	Pass	
Lead (filtered)			%	104			80-120	Pass	
Mercury			%	101			70-130	Pass	
Mercury (filtered)			%	105			70-130	Pass	
Nickel			%	101			70-130	Pass	
Nickel (filtered)			%	100			80-120	Pass	
Zinc			%	100			70-130	Pass	
Zinc (filtered)			%	99			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B19-Ja04669	NCP	%	95			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B19-Ja04669	NCP	%	82			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B19-Ja04669	NCP	%	98			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B19-Ja04669	NCP	%	99			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B19-Ja04669	NCP	%	82			50-150	Pass	
Perfluorononanoic acid (PFNA)	B19-Ja04669	NCP	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B19-Ja04669	NCP	%	96			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B19-Ja04669	NCP	%	96			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B19-Ja04669	NCP	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B19-Ja04669	NCP	%	72			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B19-Ja04669	NCP	%	100			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B19-Ja04669	NCP	%	109			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B19-Ja04669	NCP	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B19-Ja04669	NCP	%	121			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B19-Ja04669	NCP	%	93			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B19-Ja04669	NCP	%	101			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B19-Ja04669	NCP	%	97			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B19-Ja04669	NCP	%	110		50-150	Pass	
Spike - % Recovery								
Perfluoroalkyl sulfonic acids (PFASs)				Result 1				
Perfluorobutanesulfonic acid (PFBS)	B19-Ja04669	NCP	%	88		50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B19-Ja04669	NCP	%	85		50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B19-Ja04669	NCP	%	92		50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B19-Ja04669	NCP	%	94		50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B19-Ja04669	NCP	%	117		50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B19-Ja04669	NCP	%	65		50-150	Pass	
Spike - % Recovery								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B19-Ja04669	NCP	%	97		50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B19-Ja04669	NCP	%	79		50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B19-Ja04669	NCP	%	88		50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B19-Ja04669	NCP	%	61		50-150	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic (filtered)	M19-Ja03925	NCP	%	108		70-130	Pass	
Cadmium (filtered)	M19-Ja03925	NCP	%	85		70-130	Pass	
Chromium (filtered)	M19-Ja03925	NCP	%	92		70-130	Pass	
Copper (filtered)	M19-Ja03925	NCP	%	88		70-130	Pass	
Lead (filtered)	M19-Ja03925	NCP	%	90		70-130	Pass	
Mercury (filtered)	M19-Ja03925	NCP	%	80		70-130	Pass	
Nickel (filtered)	M19-Ja03925	NCP	%	97		70-130	Pass	
Zinc (filtered)	M19-Ja03925	NCP	%	83		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1				
TRH C6-C9	S19-Ja05253	NCP	%	109		70-130	Pass	
Spike - % Recovery								
BTEX				Result 1				
Benzene	S19-Ja05253	NCP	%	101		70-130	Pass	
Toluene	S19-Ja05253	NCP	%	105		70-130	Pass	
Ethylbenzene	S19-Ja05253	NCP	%	111		70-130	Pass	
m&p-Xylenes	S19-Ja05253	NCP	%	107		70-130	Pass	
o-Xylene	S19-Ja05253	NCP	%	110		70-130	Pass	
Xylenes - Total	S19-Ja05253	NCP	%	108		70-130	Pass	
Spike - % Recovery								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1				
Naphthalene	S19-Ja05253	NCP	%	115		70-130	Pass	
TRH C6-C10	S19-Ja05253	NCP	%	111		70-130	Pass	
Spike - % Recovery								
Heavy Metals				Result 1				
Arsenic	S19-Ja02362	NCP	%	94		70-130	Pass	
Cadmium	S19-Ja02362	NCP	%	96		70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S19-Ja02362	NCP	%	94			70-130	Pass	
Copper	S19-Ja02362	NCP	%	93			70-130	Pass	
Lead	S19-Ja02362	NCP	%	92			70-130	Pass	
Mercury	S19-Ja02362	NCP	%	94			70-130	Pass	
Nickel	S19-Ja02362	NCP	%	93			70-130	Pass	
Zinc	S19-Ja02362	NCP	%	92			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	S19-Ja04606	NCP	mg/L	0.017	0.041	81	30%	Fail	Q02
Acenaphthylene	S19-Ja04606	NCP	mg/L	0.077	0.17	76	30%	Fail	Q02
Anthracene	S19-Ja04606	NCP	mg/L	0.019	0.042	75	30%	Fail	Q02
Benz(a)anthracene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g,h,i)perylene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a,h)anthracene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S19-Ja04606	NCP	mg/L	0.005	0.026	140	30%	Fail	Q02
Fluorene	S19-Ja04606	NCP	mg/L	0.063	0.13	72	30%	Fail	Q02
Indeno(1,2,3-cd)pyrene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S19-Ja04606	NCP	mg/L	0.004	0.009	76	30%	Fail	Q15
Phenanthrene	S19-Ja04606	NCP	mg/L	0.051	0.13	89	30%	Fail	Q02
Pyrene	S19-Ja04606	NCP	mg/L	0.004	0.024	140	30%	Fail	Q02
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2,4-Dichlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2,4,5-Trichlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2,4,6-Trichlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2,6-Dichlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
4-Chloro-3-methylphenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Pentachlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Tetrachlorophenols - Total	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4,6-dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
2-Methyl-4,6-dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2-Nitrophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2,4-Dimethylphenol	S19-Ja04606	NCP	mg/L	0.17	0.32	60	30%	Fail	
2,4-Dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S19-Ja04606	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
4-Nitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
Dinoseb	S19-Ja04606	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Phenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (at 25°C)	M19-Ja02611	NCP	pH Units	6.2	6.2	pass	30%	Pass	

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic (filtered)	M19-Ja03925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Cadmium (filtered)	M19-Ja03925	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass
Chromium (filtered)	M19-Ja03925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper (filtered)	M19-Ja03925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead (filtered)	M19-Ja03925	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Mercury (filtered)	M19-Ja03925	NCP	mg/L	0.0003	0.0003	10	30%	Pass
Nickel (filtered)	M19-Ja03925	NCP	mg/L	0.055	0.055	1.0	30%	Pass
Zinc (filtered)	M19-Ja03925	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass
Duplicate								
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD		
Perfluorobutanoic acid (PFBA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Perfluoropentanoic acid (PFPeA)	S19-Ja03032	CP	ug/L	0.02	0.02	16	30%	Pass
Perfluorohexanoic acid (PFHxA)	S19-Ja03032	CP	ug/L	0.02	0.02	11	30%	Pass
Perfluoroheptanoic acid (PFHpA)	S19-Ja03032	CP	ug/L	< 0.01	0.01	15	30%	Pass
Perfluorooctanoic acid (PFOA)	S19-Ja03032	CP	ug/L	0.04	0.05	5.0	30%	Pass
Perfluorononanoic acid (PFNA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorodecanoic acid (PFDA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroundecanoic acid (PFUnDA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorododecanoic acid (PFDoDA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotridecanoic acid (PFTrDA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorotetradecanoic acid (PFTeDA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD		
Perfluorooctane sulfonamide (FOSA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
Duplicate								
Perfluoroalkyl sulfonic acids (PFSA's)				Result 1	Result 2	RPD		
Perfluorobutanesulfonic acid (PFBS)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoropentanesulfonic acid (PFPeS)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorohexanesulfonic acid (PFHxS)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluoroheptanesulfonic acid (PFHpS)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Perfluorooctanesulfonic acid (PFOS)	S19-Ja03032	CP	ug/L	0.08	0.09	15	30%	Pass
Perfluorodecanesulfonic acid (PFDS)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass

Duplicate								
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)				Result 1	Result 2	RPD		
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S19-Ja03032	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S19-Ja03032	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD		
TRH C6-C9	S19-Ja05252	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
BTEX				Result 1	Result 2	RPD		
Benzene	S19-Ja05252	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Toluene	S19-Ja05252	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Ethylbenzene	S19-Ja05252	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
m&p-Xylenes	S19-Ja05252	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass
o-Xylene	S19-Ja05252	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Xylenes - Total	S19-Ja05252	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
Naphthalene	S19-Ja05252	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
TRH C6-C10	S19-Ja05252	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Ja04205	NCP	mg/L	0.006	0.007	2.0	30%	Pass
Cadmium	S19-Ja02361	NCP	mg/L	0.0004	0.0004	4.0	30%	Pass
Chromium	S19-Ja02361	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper	S19-Ja02361	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Lead	S19-Ja02361	NCP	mg/L	0.002	0.002	2.0	30%	Pass
Mercury	S19-Ja02361	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass
Nickel	S19-Ja04205	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Zinc	S19-Ja02361	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

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
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q15	The RPD reported passes Eurofins mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Nibha Vaidya	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Chris Bennett	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Jonathon Angell	Senior Analyst-Organic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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

EI Australia
Suite 6.01, 55 Miller Street
Pymont
NSW 2009



NATA Accredited
Accreditation Number 1261
Site Number 18217

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: **Micaela Green**

Report **635461-W**
 Project name 182-198 VICTORIA RD MARRICKVILLE NSW
 Project ID E24098
 Received Date Jan 11, 2019

Client Sample ID			BH14M-1
Sample Matrix			Water
Eurofins mgt Sample No.			S19-Ja05517
Date Sampled			Jan 11, 2019
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	100
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001
2-Propanone (Acetone)	0.001	mg/L	0.018
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001
Allyl chloride	0.001	mg/L	< 0.001

Client Sample ID			BH14M-1
Sample Matrix			Water
Eurofins mgt Sample No.			S19-Ja05517
Date Sampled			Jan 11, 2019
Test/Reference	LOR	Unit	
Volatile Organics			
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001
Bromomethane	0.001	mg/L	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.001	mg/L	< 0.001
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.001	mg/L	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	100
Toluene-d8 (surr.)	1	%	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene ^{N02}	0.01	mg/L	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1) ^{N04}	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2) ^{N01}	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1

Client Sample ID			BH14M-1
Sample Matrix			Water
Eurofins mgt Sample No.			S19-Ja05517
Date Sampled			Jan 11, 2019
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene ^{N07}	0.001	mg/L	< 0.001
Benzo(g,h,i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a,h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1,2,3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	98
p-Terphenyl-d14 (surr.)	1	%	88
Phenols (Halogenated)			
2-Chlorophenol	0.003	mg/L	< 0.003
2,4-Dichlorophenol	0.003	mg/L	< 0.003
2,4,5-Trichlorophenol	0.01	mg/L	< 0.01
2,4,6-Trichlorophenol	0.01	mg/L	< 0.01
2,6-Dichlorophenol	0.003	mg/L	< 0.003
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01
Pentachlorophenol	0.01	mg/L	< 0.01
Tetrachlorophenols - Total	0.03	mg/L	< 0.03
Total Halogenated Phenol*	0.01	mg/L	< 0.01
Phenols (non-Halogenated)			
2-Cyclohexyl-4,6-dinitrophenol	0.1	mg/L	< 0.1
2-Methyl-4,6-dinitrophenol	0.03	mg/L	< 0.03
2-Methylphenol (o-Cresol)	0.003	mg/L	0.007
2-Nitrophenol	0.01	mg/L	< 0.01
2,4-Dimethylphenol	0.003	mg/L	< 0.003
2,4-Dinitrophenol	0.03	mg/L	< 0.03
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006
4-Nitrophenol	0.03	mg/L	< 0.03
Dinoseb	0.1	mg/L	< 0.1
Phenol	0.003	mg/L	0.004
Total Non-Halogenated Phenol*	0.1	mg/L	< 0.1
Phenol-d6 (surr.)	1	%	59
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorobutanoic acid (PFBA) ^{N11}	0.05	ug/L	< 0.05
Perfluoropentanoic acid (PFPeA) ^{N11}	0.01	ug/L	< 0.01
Perfluorohexanoic acid (PFHxA) ^{N11}	0.01	ug/L	0.01
Perfluoroheptanoic acid (PFHpA) ^{N11}	0.01	ug/L	< 0.01
Perfluorooctanoic acid (PFOA) ^{N11}	0.01	ug/L	0.02
Perfluorononanoic acid (PFNA) ^{N11}	0.01	ug/L	< 0.01

Client Sample ID			BH14M-1
Sample Matrix			Water
Eurofins mgt Sample No.			S19-Ja05517
Date Sampled			Jan 11, 2019
Test/Reference	LOR	Unit	
Perfluoroalkyl carboxylic acids (PFCAs)			
Perfluorodecanoic acid (PFDA) ^{N11}	0.01	ug/L	< 0.01
Perfluoroundecanoic acid (PFUnDA) ^{N11}	0.01	ug/L	< 0.01
Perfluorododecanoic acid (PFDoDA) ^{N11}	0.01	ug/L	< 0.01
Perfluorotridecanoic acid (PFTrDA) ^{N15}	0.01	ug/L	< 0.01
Perfluorotetradecanoic acid (PFTeDA) ^{N11}	0.01	ug/L	< 0.01
13C4-PFBA (surr.)	1	%	82
13C5-PFPeA (surr.)	1	%	100
13C5-PFHxA (surr.)	1	%	105
13C4-PFHpA (surr.)	1	%	120
13C8-PFOA (surr.)	1	%	114
13C5-PFNA (surr.)	1	%	110
13C6-PFDA (surr.)	1	%	107
13C2-PFUnDA (surr.)	1	%	79
13C2-PFDoDA (surr.)	1	%	71
13C2-PFTeDA (surr.)	1	%	51
Perfluoroalkyl sulfonamido substances			
Perfluorooctane sulfonamide (FOSA) ^{N11}	0.05	ug/L	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA) ^{N11}	0.05	ug/L	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA) ^{N11}	0.05	ug/L	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE) ^{N11}	0.05	ug/L	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE) ^{N11}	0.05	ug/L	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) ^{N11}	0.05	ug/L	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA) ^{N11}	0.05	ug/L	< 0.05
13C8-FOSA (surr.)	1	%	45
D3-N-MeFOSA (surr.)	1	%	12
D5-N-EtFOSA (surr.)	1	%	16
D7-N-MeFOSE (surr.)	1	%	17
D9-N-EtFOSE (surr.)	1	%	16
D5-N-EtFOSAA (surr.)	1	%	96
D3-N-MeFOSAA (surr.)	1	%	108
Perfluoroalkyl sulfonic acids (PFSA)			
Perfluorobutanesulfonic acid (PFBS) ^{N11}	0.01	ug/L	< 0.01
Perfluoropentanesulfonic acid (PFPeS) ^{N15}	0.01	ug/L	< 0.01
Perfluorohexanesulfonic acid (PFHxS) ^{N11}	0.01	ug/L	< 0.01
Perfluoroheptanesulfonic acid (PFHpS) ^{N15}	0.01	ug/L	< 0.01
Perfluorooctanesulfonic acid (PFOS) ^{N11}	0.01	ug/L	< 0.01
Perfluorodecanesulfonic acid (PFDS) ^{N15}	0.01	ug/L	< 0.01
13C3-PFBS (surr.)	1	%	104
18O2-PFHxS (surr.)	1	%	96
13C8-PFOS (surr.)	1	%	89

Client Sample ID			BH14M-1
Sample Matrix			Water
Eurofins mgt Sample No.			S19-Ja05517
Date Sampled			Jan 11, 2019
Test/Reference	LOR	Unit	
n:2 Fluorotelomer sulfonic acids (n:2 FTSA)			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA) ^{N11}	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA) ^{N11}	0.05	ug/L	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA) ^{N11}	0.01	ug/L	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA) ^{N15}	0.01	ug/L	< 0.01
13C2-4:2 FTSA (surr.)	1	%	65
13C2-6:2 FTSA (surr.)	1	%	83
13C2-8:2 FTSA (surr.)	1	%	146
PFASs Summations			
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.02
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.02
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05
Sum of PFASs (n=28)*	0.1	ug/L	< 0.1
pH (at 25°C)	0.1	pH Units	6.0
Heavy Metals			
Arsenic	0.001	mg/L	0.002
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	0.071
Zinc	0.005	mg/L	0.15

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 (regarding both quality and NATA accreditation).

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 mgt Suite B7			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jan 14, 2019	7 Day
BTEX - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Melbourne	Jan 14, 2019	14 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jan 14, 2019	7 Day
Total Recoverable Hydrocarbons - 2013 NEPM Fractions - Method: LTM-ORG-2010 TRH C6-C40	Melbourne	Jan 14, 2019	7 Day
Polycyclic Aromatic Hydrocarbons - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 14, 2019	7 Day
Metals M8 - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Melbourne	Jan 14, 2019	28 Days
Volatile Organics - Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices	Melbourne	Jan 14, 2019	7 Days
pH (at 25°C) - Method: LTM-GEN-7090 pH in water by ISE	Melbourne	Jan 14, 2019	0 Hours
Phenols (IWRG 621)			
Phenols (Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 14, 2019	7 Days
Phenols (non-Halogenated) - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water	Melbourne	Jan 14, 2019	7 Day
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
Perfluoroalkyl sulfonamido substances - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
Perfluoroalkyl sulfonic acids (PFSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) - Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)	Brisbane	Jan 15, 2019	14 Day

Company Name: EI Australia
Address: Suite 6.01, 55 Miller Street
Pyrmont
NSW 2009

Project Name: 182-198 VICTORIA RD MARRICKVILLE NSW
Project ID: E24098

Order No.:
Report #: 635461
Phone: 02 9516 0722
Fax:

Received: Jan 11, 2019 3:21 PM
Due: Jan 18, 2019
Priority: 5 Day
Contact Name: Micaela Green

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						pH (at 25°C)	Phenols (IWRG 621)	Volatile Organics	Eurofins mgt Suite B7	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	
Sydney Laboratory - NATA Site # 18217										
Brisbane Laboratory - NATA Site # 20794										X
Perth Laboratory - NATA Site # 23736										
External Laboratory										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	BH14M-1	Jan 11, 2019		Water	S19-Ja05517	X	X	X	X	X
Test Counts						1	1	1	1	1

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, April 2011 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. 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 5.2 2018
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 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 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/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1,3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g,h,i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a,h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1,2,3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Phenols (Halogenated)							
2-Chlorophenol	mg/L	< 0.003			0.003	Pass	
2,4-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
2,4,5-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2,4,6-Trichlorophenol	mg/L	< 0.01			0.01	Pass	
2,6-Dichlorophenol	mg/L	< 0.003			0.003	Pass	
4-Chloro-3-methylphenol	mg/L	< 0.01			0.01	Pass	
Pentachlorophenol	mg/L	< 0.01			0.01	Pass	
Tetrachlorophenols - Total	mg/L	< 0.03			0.03	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4,6-dinitrophenol	mg/L	< 0.1			0.1	Pass	
2-Methyl-4,6-dinitrophenol	mg/L	< 0.03			0.03	Pass	
2-Methylphenol (o-Cresol)	mg/L	< 0.003			0.003	Pass	
2-Nitrophenol	mg/L	< 0.01			0.01	Pass	
2,4-Dimethylphenol	mg/L	< 0.003			0.003	Pass	
2,4-Dinitrophenol	mg/L	< 0.03			0.03	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
3&4-Methylphenol (m&p-Cresol)	mg/L	< 0.006			0.006	Pass	
4-Nitrophenol	mg/L	< 0.03			0.03	Pass	
Dinoseb	mg/L	< 0.1			0.1	Pass	
Phenol	mg/L	< 0.003			0.003	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	114			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	125			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
Xylenes - Total	%	101			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	90			70-130	Pass	
1.1.1-Trichloroethane	%	77			70-130	Pass	
1.2-Dichlorobenzene	%	91			70-130	Pass	
1.2-Dichloroethane	%	81			70-130	Pass	
Trichloroethene	%	87			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	83			70-130	Pass	
TRH C6-C10	%	115			70-130	Pass	
TRH >C10-C16	%	74			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	111			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	92			70-130	Pass	
Chrysene	%	124			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	106			70-130	Pass	
Naphthalene	%	83			70-130	Pass	
Phenanthrene	%	122			70-130	Pass	
Pyrene	%	120			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							

Test				Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Chlorophenol				%	116			30-130	Pass	
2.4-Dichlorophenol				%	101			30-130	Pass	
2.4.5-Trichlorophenol				%	107			30-130	Pass	
2.4.6-Trichlorophenol				%	94			30-130	Pass	
2.6-Dichlorophenol				%	103			30-130	Pass	
4-Chloro-3-methylphenol				%	124			30-130	Pass	
Pentachlorophenol				%	84			30-130	Pass	
Tetrachlorophenols - Total				%	102			30-130	Pass	
LCS - % Recovery										
Phenols (non-Halogenated)										
2-Cyclohexyl-4.6-dinitrophenol				%	73			30-130	Pass	
2-Methyl-4.6-dinitrophenol				%	85			30-130	Pass	
2-Methylphenol (o-Cresol)				%	107			30-130	Pass	
2-Nitrophenol				%	82			30-130	Pass	
2.4-Dimethylphenol				%	93			30-130	Pass	
2.4-Dinitrophenol				%	114			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)				%	98			30-130	Pass	
4-Nitrophenol				%	35			30-130	Pass	
Dinoseb				%	98			30-130	Pass	
Phenol				%	56			30-130	Pass	
LCS - % Recovery										
Heavy Metals										
Arsenic				%	90			80-120	Pass	
Cadmium				%	86			80-120	Pass	
Chromium				%	92			80-120	Pass	
Copper				%	92			80-120	Pass	
Lead				%	87			80-120	Pass	
Mercury				%	81			75-125	Pass	
Nickel				%	89			80-120	Pass	
Zinc				%	102			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	M19-Ja06757	NCP	%	82			70-130	Pass		
Spike - % Recovery										
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					Result 1					
TRH >C10-C16	M19-Ja06757	NCP	%	84			70-130	Pass		
Spike - % Recovery										
Heavy Metals					Result 1					
Arsenic	S19-Ja04606	NCP	%	72			75-125	Fail	Q08	
Cadmium	M19-Ja08300	NCP	%	98			75-125	Pass		
Chromium	S19-Ja04606	NCP	%	80			75-125	Pass		
Copper	S19-Ja04606	NCP	%	87			75-125	Pass		
Lead	S19-Ja04606	NCP	%	85			75-125	Pass		
Mercury	S19-Ja04606	NCP	%	85			70-130	Pass		
Nickel	S19-Ja04606	NCP	%	82			75-125	Pass		
Zinc	S19-Ja04606	NCP	%	114			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 C10-C14	S19-Ja05517	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass		
TRH C15-C28	S19-Ja05517	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass		
TRH C29-C36	S19-Ja05517	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass		

Duplicate								
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD		
TRH >C10-C16	S19-Ja05517	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass
TRH >C16-C34	S19-Ja05517	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
TRH >C34-C40	S19-Ja05517	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S19-Ja04606	NCP	mg/L	0.017	0.041	81	30%	Fail Q02
Acenaphthylene	S19-Ja04606	NCP	mg/L	0.077	0.17	76	30%	Fail Q02
Anthracene	S19-Ja04606	NCP	mg/L	0.019	0.042	75	30%	Fail Q02
Benz(a)anthracene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(a)pyrene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(b&j)fluoranthene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(g,h,i)perylene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Benzo(k)fluoranthene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chrysene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Dibenz(a,h)anthracene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Fluoranthene	S19-Ja04606	NCP	mg/L	0.005	0.026	140	30%	Fail Q02
Fluorene	S19-Ja04606	NCP	mg/L	0.063	0.13	72	30%	Fail Q02
Indeno(1,2,3-cd)pyrene	S19-Ja04606	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Naphthalene	S19-Ja04606	NCP	mg/L	0.004	0.009	76	30%	Fail Q15
Phenanthrene	S19-Ja04606	NCP	mg/L	0.051	0.13	89	30%	Fail Q02
Pyrene	S19-Ja04606	NCP	mg/L	0.004	0.024	140	30%	Fail Q02
Duplicate								
Phenols (Halogenated)				Result 1	Result 2	RPD		
2-Chlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2,4-Dichlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2,4,5-Trichlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,4,6-Trichlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,6-Dichlorophenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
4-Chloro-3-methylphenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
Pentachlorophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
Tetrachlorophenols - Total	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass
Duplicate								
Phenols (non-Halogenated)				Result 1	Result 2	RPD		
2-Cyclohexyl-4,6-dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
2-Methyl-4,6-dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass
2-Methylphenol (o-Cresol)	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
2-Nitrophenol	S19-Ja04606	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass
2,4-Dimethylphenol	S19-Ja04606	NCP	mg/L	0.17	0.32	60	30%	Fail Q02
2,4-Dinitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass
3&4-Methylphenol (m&p-Cresol)	S19-Ja04606	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass
4-Nitrophenol	S19-Ja04606	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass
Dinoseb	S19-Ja04606	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass
Phenol	S19-Ja04606	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass
Duplicate								
				Result 1	Result 2	RPD		
pH (at 25°C)	M19-Ja03363	NCP	pH Units	5.5	5.6	pass	30%	Pass
Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Arsenic	S19-Ja04606	NCP	mg/L	0.028	0.028	<1	30%	Pass
Cadmium	S19-Ja04606	NCP	mg/L	0.0011	0.0011	2.0	30%	Pass
Chromium	S19-Ja04606	NCP	mg/L	0.19	0.19	1.0	30%	Pass
Copper	S19-Ja04606	NCP	mg/L	0.24	0.24	2.0	30%	Pass
Lead	S19-Ja04606	NCP	mg/L	0.33	0.32	2.0	30%	Pass
Mercury	S19-Ja04606	NCP	mg/L	0.0017	0.0017	4.0	30%	Pass

Duplicate								
Heavy Metals				Result 1	Result 2	RPD		
Nickel	S19-Ja04606	NCP	mg/L	0.33	0.33	1.0	30%	Pass
Zinc	S19-Ja04606	NCP	mg/L	0.72	0.72	<1	30%	Pass

Comments

Eurofins | mgt accreditation number 1261, corporate site 1254 and 14271 is currently in progress of a controlled transition to a new custom built location at 6 Monterey Road, Dandenong South, Victoria 3175. All results on this report denoted as being performed by Eurofins | mgt 2-5 Kingston Town Close, Oakleigh Victoria 3166 corporate site 1254, will have been performed on either Oakleigh or new Dandenong South site.

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
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
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 mgt's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Nibha Vaidya	Analytical Services Manager
Chris Bennett	Senior Analyst-Metal (VIC)
Harry Bacalis	Senior Analyst-Volatile (VIC)
Jonathon Angell	Senior Analyst-Organic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Julie Kay	Senior Analyst-Inorganic (VIC)

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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Appendix J – QA/QC Assessment

J1 Quality Control Program

J1.1 Introduction

For the purpose of assessing the quality of data presented in this report, EI collected field QC samples for analysis. The primary laboratory, Eurofins | mgt (Eurofins), and secondary laboratory, Envirolab Services Pty Ltd (Envirolab), also prepared and analysed internal QC samples. Details of the field and laboratory QC samples, with the allowable data acceptance ranges are presented in **Table J-1**.

Table J-1 Sampling Data Quality Indicators

QAI/QC Measures	Data Quality Indicators
Precision – A quantitative measure of the variability (or reproducibility) of data	Data precision would be assessed by reviewing the performance of blind field duplicate sample sets, through calculation of relative percentage differences (RPD). Data precision would be deemed acceptable if RPDs are found to be less than 30%. RPDs that exceed this range may be considered acceptable where: - Results are less than 10 times the limits of reporting (LOR); - Results are less than 20 times the LOR and the RPD is less than 50%; or - Heterogeneous materials or volatile compounds are encountered.
Accuracy – A quantitative measure of the closeness of reported data to the “true” value	Data accuracy would be assessed through the analysis of: - Split field (inter-laboratory) duplicate sample sets; - Method blanks, which are analysed for the analytes targeted in the primary samples; - Matrix spike and matrix spike duplicate sample sets; - Laboratory control samples; and - Calibration of instruments against known standards.
Representativeness – The confidence (expressed qualitatively) that data are representative of each medium present onsite	To ensure the data produced by the laboratory is representative of conditions encountered in the field, the laboratory would carry out the following: - Blank samples will be run in parallel with field samples to confirm there are no unacceptable instances of laboratory artefacts; - Review of relative percentage differences (RPD) values for field and laboratory duplicates to provide an indication that the samples are generally homogeneous, with no unacceptable instances of significant sample matrix heterogeneities; and - The appropriateness of collection methodologies, handling, storage and preservation techniques will be assessed to ensure/confirm there was minimal opportunity for sample interference or degradation (i.e. volatile loss during transport due to incorrect preservation / transport methods).
Completeness – A measure of the amount of useable data from a data collection activity	Analytical data sets acquired during the assessment will be evaluated as complete, upon confirmation that: - Standard operating procedures (SOPs) for sampling protocols were adhered to; and - Copies of all COC documentation are presented, reviewed and found to be properly completed. It can therefore be considered whether the proportion of “useable data” generated in the data collection activities is sufficient for the purposes of the land use assessment.

QA/QC Measures	Data Quality Indicators
Comparability – The confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event	Given that a reported data set can comprise several data sets from separate sampling episodes, issues of comparability between data sets are reduced through adherence to SOPs and regulator-endorsed or published guidelines and standards on each data gathering activity. In addition the data will be collected by experienced samplers and NATA-accredited laboratory methodologies will be employed in all laboratory testing programs.

J1.2 Calculation of Relative Percentage Difference (RPD)

The RPD values were calculated using the following equation:

$$RPD = \frac{|C_O - C_R|}{[(C_O + C_R)/2]} \times 100$$

Where:

C_O = Concentration obtained for the primary sample; and

C_R = Concentration obtained for the blind replicate or split duplicate sample.

J2 Field QA/QC Data Evaluation

The field quality assurance/quality control (QA/QC) soil and groundwater samples collected during the investigations were as follows:

- Blind field duplicates;
- Inter-laboratory duplicates;
- Trip blanks;
- Trip spikes; and
- Rinsate blanks.

Analytical results for tested soil and groundwater QA/QC samples, including calculated RPD values between primary and duplicate samples, are presented in **Tables J-2** and **J-3**.

J2.1 Soil Investigation

J2.1.1 Blind Field Duplicates

One blind field duplicate (BFD) soil sample was collected, as follows:

- Sample QD1 was collected from the primary sample BH14M_0.2-0.3 on 18 December 2018.

The preparation of the BFD sample involved the collection of a bulk quantity of soil from the same sampling point, with mixing, before dividing the material into identical sampling vessels. The duplicate sample was presented blind to the primary laboratory (Eurofins), to avoid any

potential analytical bias. BFD soil samples were analysed for Metals/TRHs/BTEX (**Appendix I**) and calculated RPD values were found to be within the data quality indicators (DQIs).

J2.1.2 Inter-Laboratory Duplicate

Sample QT1 was collected as an inter-laboratory duplicate (ILD) of the primary sample BH14M_0.2-0.3 on 18 December 2018. The preparation of the ILD sample was identical to the BFD sample, as described above, and was analysed for metals/TRH/BTEX by Envirolab (**Appendix I**). RPD values were within the DQIs with the exception of mercury (100%); however, EI considered this exceedance acceptable due to the low concentrations reported (<10 times the LOR for both laboratories).

J2.1.3 Trip Blank

One trip blank (QTB1) sample was prepared and analysed by the primary laboratory for BTEX. Analytical results for this sample were all below the corresponding laboratory LOR, indicating that ideal sample transport and handling conditions were achieved (i.e. there was no cross-contamination during sample transport and handling).

J2.1.4 Trip Spike

One trip spike (QTS1) sample was prepared and analysed by the primary laboratory for BTEX. Analyte recoveries for this sample were 82-83%, which complied with the DQI. It was therefore concluded that satisfactory sample transport and handling conditions were achieved (i.e. there was negligible loss of volatiles, and by default semi-volatiles, during sample transport and handling).

J2.1.5 Rinsate

One rinsate sample QR1 was submitted to the primary laboratory (Eurofins) for analysis of Metals/TRHs/BTEX. All results were reported below laboratory LOR; therefore, it was concluded that decontamination procedures performed during the field works had been effective.

J2.2 Groundwater Investigation

J2.2.1 Blind Field Duplicates

One groundwater BFD sample was collected in total, as follows:

- Sample GWQD1 was collected from the primary sample BH6M-1 on 19 January 2019.

The preparation of this BFD involved the decanting of the groundwater collected from the respective monitoring well into two separate groups of appropriately labelled sample containers. Volumes were split equally between the groups of sampling bottles / vials. Sample mixing did not occur prior to decanting, in order to preserve the concentrations of volatiles potentially present. The duplicate sample was presented blind to the primary laboratory (Eurofins), to avoid any potential analytical bias. The BFD was analysed for Metals/TRH/BTEX.

The RPDs were found to be within the DQIs, with the exception of chromium (66.67%) and zinc (162.14%). However, these were not considered to invalidate the data set because:

- The reported concentrations of chromium were within ten times the laboratory LOR; and
- The BH6M-1 and triplicate (GWQT1) values for zinc were identical, with the higher concentration being adopted and did not alter interpretation of groundwater contamination.

J2.2.2 Inter-Laboratory Duplicate

Sample GWQT1 was collected as an ILD of the primary sample BH6M-1 on 19 January 2019. The preparation of the ILD sample was identical to the BFD sample, as described above, and was analysed for metals/TRH/BTEX by Envirolab (**Appendix I**). RPD values were within the DQIs with the exception of F2 TRHs (150.82%); however, EI considered the variation to be due to

sample heterogeneity or contamination during lab analysis procedure. As F2 TRHs were not detected in any other groundwater sample (including intra-laboratory sample GWQD1), EI did not consider that this variability invalidated the data set.

J2.2.3 Trip Blank and Trip Spike

Trip blank and spike samples were not included in groundwater sampling. Note that the groundwater samples were registered at the laboratory on the same day as collected (<6 hours between sampling and laboratory submission) and were kept cold with ice packs in transit. EI therefore considered ideal sample transport and handling conditions to have been achieved.

J2.2.4 Rinsate

One rinsate sample (GWQR1) was submitted to the primary laboratory for TRHs, BTEX and selected metals analyses. Analytical results were reported below the laboratory LOR for all analytes with the exception of toluene (1 µg/L). Following retrieval of these results, a rinsate blank sample (GWQRB1), which had been on hold to that point, was tested for toluene and returned an identical result of 1 µg/L. It was concluded that the toluene was present in the lab supplied water, confirming that decontamination procedures performed during the field works had been effective.

J2.3 Assessment of Field QA/QC Data

All samples were classified in the field with respect to soil/fill characteristics and any observable signs of contamination based on visual and odour assessment.

All samples, including field QC samples, were transported to the primary and secondary laboratories under strict Chain-of-Custody conditions and appropriate copies of relevant documentation were included in the respective reports.

The overall completeness of documentation produced under the field program of the subject assessment was considered to be adequate for the purposes of drawing valid conclusions regarding the environmental condition of the site.

Based on the results of the field QA/QC data, EI considered the field QA/QC program carried out during the additional site investigation to be appropriate and the results to be acceptable.

Table H-2 Summary of QA/QC Results for Soil Validation Samples

Site: 182-198 Victoria Road, Marrickville, NSW 2204

Job No: E24098.E03

Date	Sample Identification	Description	TRH				BTEX				Heavy Metals							
			F1	F2	F3	F4	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
18/12/2018	BH14M_0.2-0.3	Primary Soil Sample	<20	<50	130	<100	<0.1	<0.1	<0.1	<0.3	14	0.4	20	39	93	0.3	12	200
18/12/2018	QD1	Intra-laboratory duplicate of BH14M_0.2-0.3	<20	<50	160	<100	<0.1	<0.1	<0.1	<0.3	15	<0.4	18	31	85	0.2	11	150
RPD			0.00	0.00	20.69	0.00	0.00	0.00	0.00	0.00	6.90	0.00	10.53	22.86	8.99	40.00	8.70	28.57
Inter-laboratory Duplicate																		
18/12/2018	BH14M_0.2-0.3	Primary Soil Sample	<20	<50	130	<100	<0.1	<0.1	<0.1	<0.3	14	0.4	20	39	93	0.3	12	200
18/12/2018	QT1	Inter-laboratory duplicate of BH14M_0.2-0.3	<25	<50	<100	<100	<0.2	<0.5	<1	<1	9	<0.4	18	43	80	0.1	14	200
RPD			NA	0.00	33.33	0.00	NA	NA	NA	NA	43.48	0.00	10.53	9.76	15.03	100.00	15.38	0.00
Trip Blanks																		
18/12/2018	Trip Blank (QTB1)	Soil	-	-	-	-	<0.1	<0.1	<0.1	<0.3	-	-	-	-	-	-	-	-
Trip Spikes																		
18/12/2018	Trip Spike (QTS1)	Soil	-	-	-	-	82%	83%	83%	82%	-	-	-	-	-	-	-	-
Rinsate Samples																		
18/12/2018	QR1	De-ionised water	<20	<50	<100	<100	<1	<1	<1	<3	<1	<0.2	<1	<1	<1	<0.1	<1	<5

52.17 RPD calculated by halving detection limit exceeds 30-50% range referenced from AS4482.1 (2005)

82.35 RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE: All soil results are reported in mg/kg . All water results are reported in µg/L.

1 Value shown is the lowest recovery value reported for xylenes

F1 = TRH C6-C10 less the sum of BTEX

F2 = TRH >C10-C16 less naphthalene

F3 = TRH >C16-C34

F2 = TRH >C34-C40

Table H-3 Summary of QA/QC Results for Groundwater Samples

Site: 182-198 Victoria Road, Marrickville, NSW 2204

Job No: E24098.E03

Date	Sample Identification	Description	TRH				BTEX				Heavy Metals							
			F1	F2	F3	F4	Benzene	Toluene	Ethylbenzene	Xylene (total)	Arsenic	Cadmium	Chromium (Total)	Copper	Lead	Mercury	Nickel	Zinc
Intra-laboratory Duplicate																		
19/01/019	BH6M-1	Primary Water Sample	<20	<50	<100	<100	<1	1	5	7	<1	<0.2	1	3	<1	<0.1	50	220
19/01/019	GWQD1	Intra-laboratory duplicate of BH6M-1	<20	<50	<100	<100	<1	<1	6	9	<1	<0.2	2	3	<1	<0.1	52	23
RPD			0.00	0.00	0.00	0.00	0.00	0.00	18.18	25.00	0.00	0.00	66.67	0.00	0.00	0.00	3.92	162.14
Inter-laboratory Duplicate																		
19/01/019	BH6M-1	Primary Water Sample	<20	<50	<100	<100	<1	1	5	7	<1	<0.2	1	3	<1	<0.1	50	220
19/01/019	GWQT1	Inter-laboratory duplicate of BH103M-1	17	280	<100	<100	<1	1	4	6	<1	<0.1	1	2	<1	<0.05	50	220
RPD			22.22	150.82	0.00	0.00	0.00	0.00	22.22	15.38	0.00	NA	0.00	40.00	0.00	NA	0.00	0.00
Rinsate Blanks																		
19/01/019	GWQR1	De-ionised water	<20	<50	<100	<100	<1	1	<1	<3	<1	<0.2	<1	<1	<1	<0.1	<1	<5
19/01/019	GWQRB1	De-ionised water	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

52.17 RPD calculated by halving detection limit exceeds 30-50% range referenced from AS4482.1 (2005)

82.35 RPD exceeds 30-50% range referenced from AS4482.1 (2005)

NOTE: All water results are reported in µg/L.

F1 = TRH C6-C10 less the sum of BTEX

F2 = TRH >C10-C16 less naphthalene

F3 = TRH >C16-C34

F2 = TRH >C34-C40

¹ Value shown is the lowest recovery value reported for xylenes