

**Thuroona Services**  
**34 Cocos Drive**  
**Bibra Lake**  
**WA 6163**



**NATA Accredited**  
**Accreditation Number 2377**  
**Site Number 2370**

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

**Attention:** **Samuel Jackson**

**Report** **863506-W**  
 Project name **Bridgetown Bushfire Site Investigation**  
 Project ID **Hester Street Water Sampling**  
 Received Date **Feb 14, 2022**

Client Sample ID			Incident control centre water tank	Bridgetown Oval Dam	Cidery Dam	Bridgetown Leisure centre above ground pool
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L22-Fe27934	L22-Fe27935	L22-Fe27936	L22-Fe27937
Date Sampled			Feb 14, 2022	Feb 14, 2022	Feb 14, 2022	Feb 14, 2022
Test/Reference	LOR	Unit				
Chromium (VI)	0.002	mg/L	0.005	0.017	< 0.002	0.004
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	0.005	< 0.001	< 0.001	0.005
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			Bridgetown Golf course Dam	Connell Road water tank	Connell Road north water tank	Warner Street fish pond
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L22-Fe27938	L22-Fe27939	L22-Fe27940	L22-Fe27941
Date Sampled			Feb 14, 2022	Feb 15, 2022	Feb 15, 2022	Feb 15, 2022
Test/Reference	LOR	Unit				
Chromium (VI)	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.009
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	< 0.001	0.012	< 0.001	< 0.001
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

<b>Client Sample ID</b>			<b>Warner Street water tank</b>	<b>Warner Street swimming pool</b>	<b>Warner Street pool</b>	<b>Warner Street water tank</b>
<b>Sample Matrix</b>			<b>Water</b>	<b>Water</b>	<b>Water</b>	<b>Water</b>
<b>Eurofins Sample No.</b>			<b>L22-Fe27942</b>	<b>L22-Fe27943</b>	<b>L22-Fe27944</b>	<b>L22-Fe27945</b>
<b>Date Sampled</b>			<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>
Test/Reference	LOR	Unit				
Chromium (VI)	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	0.035	0.003	0.059	0.064
Chromium	0.001	mg/L	0.003	0.001	0.008	0.015
Copper	0.001	mg/L	0.002	0.002	0.37	0.008
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.002

<b>Client Sample ID</b>			<b>Warner Street water tank</b>	<b>Warner Street fish pond</b>	<b>Hester Road water tank</b>	<b>Hester Road main water</b>
<b>Sample Matrix</b>			<b>Water</b>	<b>Water</b>	<b>Water</b>	<b>Water</b>
<b>Eurofins Sample No.</b>			<b>L22-Fe27946</b>	<b>L22-Fe27947</b>	<b>L22-Fe27948</b>	<b>L22-Fe27949</b>
<b>Date Sampled</b>			<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>
Test/Reference	LOR	Unit				
Chromium (VI)	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	0.008	< 0.001	< 0.001
Chromium	0.001	mg/L	0.002	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	0.20	0.004	0.18	0.010
Lead	0.001	mg/L	0.009	< 0.001	0.013	< 0.001

<b>Client Sample ID</b>			<b>Hester Road north shed water tank</b>	<b>Hester Road south shed water tank</b>	<b>Highland Fire Station water tank</b>	<b>Greenbushes Fire Station water tank</b>
<b>Sample Matrix</b>			<b>Water</b>	<b>Water</b>	<b>Water</b>	<b>Water</b>
<b>Eurofins Sample No.</b>			<b>L22-Fe27950</b>	<b>L22-Fe27951</b>	<b>L22-Fe27952</b>	<b>L22-Fe27953</b>
<b>Date Sampled</b>			<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>	<b>Feb 15, 2022</b>
Test/Reference	LOR	Unit				
Chromium (VI)	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	0.022	0.047	< 0.001	< 0.001
Chromium	0.001	mg/L	0.003	0.011	< 0.001	< 0.001
Copper	0.001	mg/L	0.034	0.12	0.025	0.012
Lead	0.001	mg/L	0.002	0.006	0.003	0.004

**Sample History**

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

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

<b>Description</b>	<b>Testing Site</b>	<b>Extracted</b>	<b>Holding Time</b>
Chromium (VI) - Method: ARL316 - Hexavalent Chromium in Water by Discrete Analyser	Welshpool	Feb 15, 2022	1 Day
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Feb 15, 2022	28 Days

**Company Name:** Thuroona Services Pty Ltd  
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 WA 6163

**Order No.:**  
**Report #:** 863506  
**Phone:** 1300 848 766  
**Fax:**

**Received:** Feb 15, 2022 3:50 PM  
**Due:** Feb 16, 2022  
**Priority:** 1 Day  
**Contact Name:** Samuel Jackson

**Project Name:** Bridgetown Bushfire Site Investigation  
**Project ID:** Hester Street Water Sampling

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID						
1	Incident control centre water tank	Feb 14, 2022		Water	L22-Fe27934	X	X	X	X		X
2	Bridgetown Oval Dam	Feb 14, 2022		Water	L22-Fe27935	X	X	X	X		X
3	Cidery Dam	Feb 14, 2022		Water	L22-Fe27936	X	X	X	X		X
4	Bridgetown Leisure centre above ground pool	Feb 14, 2022		Water	L22-Fe27937	X	X	X	X		X
5	Bridgetown	Feb 14, 2022		Water	L22-Fe27938	X	X	X	X		X

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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
	Golf course Dam										
6	Connell Road water tank	Feb 15, 2022		Water	L22-Fe27939	X	X	X	X		X
7	Connell Road north water tank	Feb 15, 2022		Water	L22-Fe27940	X	X	X	X		X
8	Warner Street fish pond	Feb 15, 2022		Water	L22-Fe27941	X	X	X	X		X
9	Warner Street water tank	Feb 15, 2022		Water	L22-Fe27942	X	X	X	X		X

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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
10	Warner Street swimming pool	Feb 15, 2022		Water	L22-Fe27943	X	X	X	X		X
11	Warner Street pool	Feb 15, 2022		Water	L22-Fe27944	X	X	X	X		X
12	Warner Street water tank	Feb 15, 2022		Water	L22-Fe27945	X	X	X	X		X
13	Warner Street water tank	Feb 15, 2022		Water	L22-Fe27946	X	X	X	X		X
14	Warner Street fish pond	Feb 15, 2022		Water	L22-Fe27947	X	X	X	X		X

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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
15	Hester Road water tank	Feb 15, 2022		Water	L22-Fe27948	X	X	X	X		X
16	Hester Road main water	Feb 15, 2022		Water	L22-Fe27949	X	X	X	X		X
17	Hester Road north shed water tank	Feb 15, 2022		Water	L22-Fe27950	X	X	X	X		X
18	Hester Road south shed water tank	Feb 15, 2022		Water	L22-Fe27951	X	X	X	X		X

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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
19	Highland Fire Station water tank	Feb 15, 2022		Water	L22-Fe27952	X	X	X	X		X
20	Greenbushes Fire Station water tank	Feb 15, 2022		Water	L22-Fe27953	X	X	X	X		X
21	Incident control centre rinse	Feb 14, 2022		Water	L22-Fe27954					X	
22	Bridgetown Oval Dam rinse	Feb 14, 2022		Water	L22-Fe27955					X	
23	Cidery Dam rinse	Feb 14, 2022		Water	L22-Fe27956					X	



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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
24	Bridgetown Leisure centre above ground pool rinse	Feb 14, 2022		Water	L22-Fe27957					X	
25	Bridgetown Golf course Dam rinse	Feb 14, 2022		Water	L22-Fe27958					X	
26	Connell Road water tank rinse	Feb 15, 2022		Water	L22-Fe27959					X	
27	Connell Road north water tank rinse	Feb 15, 2022		Water	L22-Fe27960					X	

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<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Hester Street Water Sampling	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
28	Warner Street fish pond rinse	Feb 15, 2022		Water	L22-Fe27961					X	
29	Warner Street water tank rinse	Feb 15, 2022		Water	L22-Fe27962					X	
30	Warner Street swimming pool rinse	Feb 15, 2022		Water	L22-Fe27963					X	
31	Warner Street pool rinse	Feb 15, 2022		Water	L22-Fe27964					X	
32	Warner	Feb 15, 2022		Water	L22-Fe27965					X	

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**Project ID:** Hester Street Water Sampling

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
	Street water tank rinse										
33	Warner Street water tank rinse	Feb 15, 2022		Water	L22-Fe27966					X	
34	Warner Street fish pond rinse	Feb 15, 2022		Water	L22-Fe27967					X	
35	Hester Road water tank rinse	Feb 15, 2022		Water	L22-Fe27968					X	
36	Hester Road main water rinse	Feb 15, 2022		Water	L22-Fe27969					X	

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Sample Detail						Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>											
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>											
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>											
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>											
<b>External Laboratory</b>											
37	Hester Road north shed water tank rinse	Feb 15, 2022		Water	L22-Fe27970					X	
38	Hester Road south shed water tank rinse	Feb 15, 2022		Water	L22-Fe27971					X	
39	Highland Fire Station water tank rinse	Feb 15, 2022		Water	L22-Fe27972					X	
40	Greenbushes Fire Station water tank	Feb 15, 2022		Water	L22-Fe27973					X	

<b>Company Name:</b>	Thuroona Services Pty Ltd	<b>Order No.:</b>		<b>Received:</b>	Feb 15, 2022 3:50 PM
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<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Hester Street Water Sampling	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail		Arsenic	Chromium	Chromium (VI)	Copper	HOLD	Lead
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>		X	X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>							
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>							
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>							
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>							
<b>External Laboratory</b>							
	rinse						
<b>Test Counts</b>		20	20	20	20	20	20

## Internal Quality Control Review and Glossary

### General

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

### Holding Times

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

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

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

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

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

### Units

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

### Terms

<b>APHA</b>	American Public Health Association
<b>COC</b>	Chain of Custody
<b>CP</b>	Client Parent - QC was performed on samples pertaining to this report
<b>CRM</b>	Certified Reference Material (ISO17034) - reported as percent recovery.
<b>Dry</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>Duplicate</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>LOR</b>	Limit of Reporting.
<b>LCS</b>	Laboratory Control Sample - reported as percent recovery.
<b>Method Blank</b>	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.
<b>NCP</b>	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.
<b>RPD</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>SPIKE</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>SRA</b>	Sample Receipt Advice
<b>Surr - Surrogate</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>TBTO</b>	Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
<b>TCLP</b>	Toxicity Characteristic Leaching Procedure
<b>TEQ</b>	Toxic Equivalency Quotient or Total Equivalence
<b>QSM</b>	US Department of Defense Quality Systems Manual Version 5.4
<b>US EPA</b>	United States Environmental Protection Agency
<b>WA DWER</b>	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

### QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

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

**Quality Control Results**

Test		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
<b>Method Blank</b>								
Chromium (VI)		mg/L	< 0.002			0.002	Pass	
<b>Method Blank</b>								
<b>Heavy Metals</b>								
Arsenic		mg/L	< 0.001			0.001	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	
<b>LCS - % Recovery</b>								
<b>Heavy Metals</b>								
Arsenic		%	99			80-120	Pass	
Chromium		%	91			80-120	Pass	
Copper		%	86			80-120	Pass	
Lead		%	92			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
<b>Spike - % Recovery</b>								
				Result 1				
Chromium (VI)	L22-Fe27934	CP	%	109		80-120	Pass	
<b>Spike - % Recovery</b>								
				Result 1				
Arsenic	L22-Fe27935	CP	%	99		75-125	Pass	
Chromium	L22-Fe27935	CP	%	82		75-125	Pass	
Copper	L22-Fe27935	CP	%	75		75-125	Pass	
Lead	L22-Fe27935	CP	%	80		75-125	Pass	
<b>Spike - % Recovery</b>								
				Result 1				
Arsenic	L22-Fe27946	CP	%	81		75-125	Pass	
Chromium	L22-Fe27946	CP	%	78		75-125	Pass	
Copper	L22-Fe27946	CP	%	73		75-125	Fail	Q08
Lead	L22-Fe27946	CP	%	77		75-125	Pass	
<b>Spike - % Recovery</b>								
				Result 1				
Chromium (VI)	L22-Fe27953	CP	%	109		80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
<b>Duplicate</b>								
				Result 1	Result 2	RPD		
Arsenic	L22-Fe27934	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chromium	L22-Fe27934	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper	L22-Fe27934	CP	mg/L	0.005	0.006	4.0	30%	Pass
Lead	L22-Fe27934	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
<b>Duplicate</b>								
				Result 1	Result 2	RPD		
Arsenic	L22-Fe27944	CP	mg/L	0.059	0.055	8.0	30%	Pass
Chromium	L22-Fe27944	CP	mg/L	0.008	0.007	10	30%	Pass
Copper	L22-Fe27944	CP	mg/L	0.37	0.34	8.0	30%	Pass
Lead	L22-Fe27944	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
<b>Duplicate</b>								
				Result 1	Result 2	RPD		
Chromium (VI)	L22-Fe27952	CP	mg/L	< 0.002	< 0.002	<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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

**Qualifier Codes/Comments**

Code	Description
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.

**Authorised by:**

Robert Johnston	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal (WA)
Sam Becker	Senior Analyst-Inorganic (WA)



**Kim Rodgers**  
**Business Unit 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

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**Thuroona Services**  
**34 Cocos Drive**  
**Bibra Lake**  
**WA 6163**



**NATA Accredited**  
**Accreditation Number 2377**  
**Site Number 2370**

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

**Attention:** **Samuel Jackson**

**Report** **864637-W**  
 Project name **Bridgetown Bushfire Site Investigation**  
 Project ID **Water Smpling 14 - 18/02/2022**  
 Received Date **Feb 18, 2022**

Client Sample ID			Yarri Brow water tank	Connell Road water tank	Connell Road dam	Connell Road water tank
<b>Sample Matrix</b>			Water	Water	Water	Water
<b>Eurofins Sample No.</b>			L22-Fe37569	L22-Fe37570	L22-Fe37571	L22-Fe37572
<b>Date Sampled</b>			Feb 16, 2022	Feb 16, 2022	Feb 16, 2022	Feb 16, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	0.003	< 0.001	< 0.001
Chromium	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Copper	0.001	mg/L	0.008	0.003	< 0.001	0.008

Client Sample ID			Greenbushes pool (natural pool)	Greenbushes Town Hall water tank	Greenbushes golf course dam	Highland estate dam
<b>Sample Matrix</b>			Water	Water	Water	Water
<b>Eurofins Sample No.</b>			L22-Fe37573	L22-Fe37574	L22-Fe37575	L22-Fe37576
<b>Date Sampled</b>			Feb 16, 2022	Feb 16, 2022	Feb 16, 2022	Feb 16, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	< 0.001	0.71	< 0.001	< 0.001

Client Sample ID			Bridgetown Gardens dam	Catterick Fire Station water tank	Kirralee dam/pool	Krsuls Road water tank
<b>Sample Matrix</b>			Water	Water	Water	Water
<b>Eurofins Sample No.</b>			L22-Fe37577	L22-Fe37578	L22-Fe37579	L22-Fe37580
<b>Date Sampled</b>			Feb 16, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.002	0.058
Chromium	0.001	mg/L	< 0.001	< 0.001	0.003	0.017
Copper	0.001	mg/L	< 0.001	0.015	0.001	0.11

Client Sample ID			Jayes Road water tank	Greenbushes-Boyup Brook Road dam	Kangaroo Gully dam	Elwin Taylor Road water tank
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L22-Fe37581	L22-Fe37582	L22-Fe37583	L22-Fe37584
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Chromium	0.001	mg/L	< 0.001	< 0.001	0.004	< 0.001
Copper	0.001	mg/L	0.002	< 0.001	0.002	0.008

Client Sample ID			Windy Gully water tank	Suttons Road dam	Faulkner Campbells Road dam	Scrivens Road water tank
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L22-Fe37585	L22-Fe37586	L22-Fe37587	L22-Fe37588
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	0.001	mg/L	< 0.001	0.001	0.001	< 0.001
Copper	0.001	mg/L	0.002	< 0.001	< 0.001	0.016

Client Sample ID			Wagebadenup Ridge dam	Sunridge Drive dam	Break O Day dam	Maslin Street water tank
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			L22-Fe37589	L22-Fe37590	L22-Fe37591	L22-Fe37592
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	0.001	0.001	0.001	0.005
Chromium	0.001	mg/L	< 0.001	< 0.001	0.001	0.002
Copper	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.033

Client Sample ID			<b>Brockman Highway dam</b>	<b>Henderson Road dam</b>	<b>Hester Road dam</b>	<b>Kendall Road dam</b>
<b>Sample Matrix</b>			<b>Water</b>	<b>Water</b>	<b>Water</b>	<b>Water</b>
<b>Eurofins Sample No.</b>			<b>L22-Fe37593</b>	<b>L22-Fe37594</b>	<b>L22-Fe37595</b>	<b>L22-Fe37596</b>
<b>Date Sampled</b>			<b>Feb 17, 2022</b>	<b>Feb 18, 2022</b>	<b>Feb 18, 2022</b>	<b>Feb 18, 2022</b>
Test/Reference	LOR	Unit				
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
<b>Heavy Metals</b>						
Arsenic	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Chromium	0.001	mg/L	0.005	< 0.001	0.003	< 0.001
Copper	0.001	mg/L	0.006	< 0.001	< 0.001	< 0.001

Client Sample ID			<b>Hester Cascades dam</b>	<b>Fullerton Road dam</b>
<b>Sample Matrix</b>			<b>Water</b>	<b>Water</b>
<b>Eurofins Sample No.</b>			<b>L22-Fe37597</b>	<b>L22-Fe37598</b>
<b>Date Sampled</b>			<b>Feb 18, 2022</b>	<b>Feb 18, 2022</b>
Test/Reference	LOR	Unit		
Chromium (hexavalent)	0.005	mg/L	< 0.005	< 0.005
<b>Heavy Metals</b>				
Arsenic	0.001	mg/L	0.004	0.002
Chromium	0.001	mg/L	0.001	0.044
Copper	0.001	mg/L	0.001	0.029

**Sample History**

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

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

Description	Testing Site	Extracted	Holding Time
Chromium (hexavalent) - Method: LTM-INO-4100 Hexavalent Chromium by Discrete Analyser	Welshpool	Feb 21, 2022	28 Days
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Welshpool	Feb 21, 2022	28 Days

<b>Company Name:</b>	Thuroona Services Pty Ltd	<b>Order No.:</b>		<b>Received:</b>	Feb 18, 2022 2:00 PM
<b>Address:</b>	34 Cocos Drive Bibra Lake WA 6163	<b>Report #:</b>	864637	<b>Due:</b>	Feb 21, 2022
<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Water Smpling 14 - 18/02/2022	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID					
1	Yarri Brow water tank	Feb 16, 2022		Water	L22-Fe37569	X	X	X	X	
2	Connell Road water tank	Feb 16, 2022		Water	L22-Fe37570	X	X	X	X	
3	Connell Road dam	Feb 16, 2022		Water	L22-Fe37571	X	X	X	X	
4	Connell Road water tank	Feb 16, 2022		Water	L22-Fe37572	X	X	X	X	
5	Greenbushes	Feb 16, 2022		Water	L22-Fe37573	X	X	X	X	

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**Fax:**

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**Contact Name:** Samuel Jackson

**Project Name:** Bridgetown Bushfire Site Investigation  
**Project ID:** Water Smpling 14 - 18/02/2022

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	pool (natural pool)									
6	Greenbushes Town Hall water tank	Feb 16, 2022		Water	L22-Fe37574	X	X	X	X	
7	Greenbushes golf course dam	Feb 16, 2022		Water	L22-Fe37575	X	X	X	X	
8	Highland estate dam	Feb 16, 2022		Water	L22-Fe37576	X	X	X	X	
9	Bridgetown Gardens dam	Feb 16, 2022		Water	L22-Fe37577	X	X	X	X	
10	Catterick Fire	Feb 17, 2022		Water	L22-Fe37578	X	X	X	X	

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**Project ID:** Water Smpling 14 - 18/02/2022

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	Station water tank									
11	Kirralee dam/pool	Feb 17, 2022		Water	L22-Fe37579	X	X	X	X	
12	Krsuls Road water tank	Feb 17, 2022		Water	L22-Fe37580	X	X	X	X	
13	Jayes Road water tank	Feb 17, 2022		Water	L22-Fe37581	X	X	X	X	
14	Greenbushes-Boyup Brook Road dam	Feb 17, 2022		Water	L22-Fe37582	X	X	X	X	

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<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Water Smpling 14 - 18/02/2022	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
15	Kangaroo Gully dam	Feb 17, 2022		Water	L22-Fe37583	X	X	X	X	
16	Elgin Taylor Road water tank	Feb 17, 2022		Water	L22-Fe37584	X	X	X	X	
17	Windy Gully water tank	Feb 17, 2022		Water	L22-Fe37585	X	X	X	X	
18	Suttons Road dam	Feb 17, 2022		Water	L22-Fe37586	X	X	X	X	
19	Faulkner Campbells Road dam	Feb 17, 2022		Water	L22-Fe37587	X	X	X	X	



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**Project Name:** Bridgetown Bushfire Site Investigation  
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**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
20	Scrivens Road water tank	Feb 17, 2022		Water	L22-Fe37588	X	X	X	X	
21	Wagebadenup Ridge dam	Feb 17, 2022		Water	L22-Fe37589	X	X	X	X	
22	Sunridge Drive dam	Feb 17, 2022		Water	L22-Fe37590	X	X	X	X	
23	Break O Day dam	Feb 17, 2022		Water	L22-Fe37591	X	X	X	X	
24	Maslin Street water tank	Feb 17, 2022		Water	L22-Fe37592	X	X	X	X	
25		Feb 17, 2022		Water	L22-Fe37593	X	X	X	X	

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**Project Name:** Bridgetown Bushfire Site Investigation  
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**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	Brockman Highway dam									
26	Henderson Road dam	Feb 18, 2022		Water	L22-Fe37594	X	X	X	X	
27	Hester Road dam	Feb 18, 2022		Water	L22-Fe37595	X	X	X	X	
28	Kendall Road dam	Feb 18, 2022		Water	L22-Fe37596	X	X	X	X	
29	Hester Cascades dam	Feb 18, 2022		Water	L22-Fe37597	X	X	X	X	
30	Fullerton Road dam	Feb 18, 2022		Water	L22-Fe37598	X	X	X	X	

<b>Company Name:</b>	Thuroona Services Pty Ltd	<b>Order No.:</b>		<b>Received:</b>	Feb 18, 2022 2:00 PM
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<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Water Smpling 14 - 18/02/2022	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
31	Warner Street hot tub	Feb 16, 2022		Water	L22-Fe37599					X
32	Warner Street rinse	Feb 16, 2022		Water	L22-Fe37600					X
33	Yarri Brow rinse	Feb 16, 2022		Water	L22-Fe37601					X
34	Connell Road rinse	Feb 16, 2022		Water	L22-Fe37602					X
35	Connell Road rinse	Feb 16, 2022		Water	L22-Fe37603					X
36	Connell Road rinse	Feb 16, 2022		Water	L22-Fe37604					X
37	Greenbushes	Feb 16, 2022		Water	L22-Fe37605					X

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WA 6163

**Order No.:**  
**Report #:** 864637  
**Phone:** 1300 848 766  
**Fax:**

**Received:** Feb 18, 2022 2:00 PM  
**Due:** Feb 21, 2022  
**Priority:** 1 Day  
**Contact Name:** Samuel Jackson

**Project Name:** Bridgetown Bushfire Site Investigation  
**Project ID:** Water Smpling 14 - 18/02/2022

**Eurofins Analytical Services Manager : Rhys Thomas**

Sample Detail						Arsenic	Chromium	Chromium (hexavalent)	Copper	HOLD
<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	pool rinse									
38	Greenbushes Town Hall rinse	Feb 16, 2022		Water	L22-Fe37606					X
39	Greenbushes golf course Club House water tank	Feb 16, 2022		Water	L22-Fe37607					X
40	Greenbushes golf course Club House rinse	Feb 16, 2022		Water	L22-Fe37608					X
41	Greenbushes golf course	Feb 16, 2022		Water	L22-Fe37609					X

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<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	golf course dam rinse									
42	Highland estate dam rinse	Feb 16, 2022		Water	L22-Fe37610					X
43	Bridgetown Gardens dam rinse	Feb 16, 2022		Water	L22-Fe37611					X
44	Catterick Fire Station rinse	Feb 17, 2022		Water	L22-Fe37612					X
45	Kirralee dam/pool rinse	Feb 17, 2022		Water	L22-Fe37613					X
46	Krsuls	Feb 17, 2022		Water	L22-Fe37614					X

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<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	Road rinse									
47	Jayes Road rinse	Feb 17, 2022		Water	L22-Fe37615					X
48	Greenbushes-Boyup Brook Road water tank	Feb 17, 2022		Water	L22-Fe37616					X
49	Greenbushes-Boyup Brook Road rinse	Feb 17, 2022		Water	L22-Fe37617					X
50	Greenbushes-	Feb 17, 2022		Water	L22-Fe37618					X

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	Greenbushes- Boyup Brook Road dam rinse									
51	Kangaroo Gully rinse	Feb 17, 2022		Water	L22-Fe37619					X
52	Elwin Taylor Road rinse	Feb 17, 2022		Water	L22-Fe37620					X
53	Windy Gully rinse	Feb 17, 2022		Water	L22-Fe37621					X
54	Polina Road dam	Feb 17, 2022		Water	L22-Fe37622					X
55	Polina	Feb 17, 2022		Water	L22-Fe37623					X

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	Road rinse									
56	Suttons Road rinse	Feb 17, 2022		Water	L22-Fe37624					X
57	Faulkner Campbells Road rinse	Feb 17, 2022		Water	L22-Fe37625					X
58	Scrivens Road water rinse	Feb 17, 2022		Water	L22-Fe37626					X
59	Wagebadenup Ridge water tank	Feb 17, 2022		Water	L22-Fe37627					X



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**Eurofins Analytical Services Manager : Rhys Thomas**

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
60	Wagebadenup Ridge water tank rinse	Feb 17, 2022		Water	L22-Fe37628					X
61	Wagebadenup Ridge dam rinse	Feb 17, 2022		Water	L22-Fe37629					X
62	Sunridge Drive rinse	Feb 17, 2022		Water	L22-Fe37630					X
63	Break O Day water tank	Feb 17, 2022		Water	L22-Fe37631					X
64	Break O Day water tank	Feb 17, 2022		Water	L22-Fe37632					X

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	rinse									
65	Break O Day dam rinse	Feb 17, 2022		Water	L22-Fe37633					X
66	Maslin Street water tank rinse	Feb 17, 2022		Water	L22-Fe37634					X
67	Brockman Highway dam rinse	Feb 17, 2022		Water	L22-Fe37635					X
68	Henderson Road dam rinse	Feb 18, 2022		Water	L22-Fe37636					X

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<b>Project Name:</b>	Bridgetown Bushfire Site Investigation	<b>Phone:</b>	1300 848 766	<b>Priority:</b>	1 Day
<b>Project ID:</b>	Water Smpling 14 - 18/02/2022	<b>Fax:</b>		<b>Contact Name:</b>	Samuel Jackson

**Eurofins Analytical Services Manager : Rhys Thomas**

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
69	Hester Road dam rinse	Feb 18, 2022		Water	L22-Fe37637					X
70	Kendall Road dam rinse	Feb 18, 2022		Water	L22-Fe37638					X
71	Hester Cascades dam rinse	Feb 18, 2022		Water	L22-Fe37639					X
72	Fullerton Road dam rinse	Feb 18, 2022		Water	L22-Fe37640					X
73	Hester Cascades	Feb 18, 2022		Water	L22-Fe37641					X

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<b>Perth Laboratory - NATA # 2377 Site # 2370</b>						X	X	X	X	X
<b>Melbourne Laboratory - NATA # 1261 Site # 1254</b>										
<b>Sydney Laboratory - NATA # 1261 Site # 18217</b>										
<b>Brisbane Laboratory - NATA # 1261 Site # 20794</b>										
<b>Mayfield Laboratory - NATA # 1261 Site # 25079</b>										
<b>External Laboratory</b>										
	water tank									
74	Hester Cascades water tank rinse	Feb 18, 2022		Water	L22-Fe37642					X
<b>Test Counts</b>						30	30	30	30	44

## Internal Quality Control Review and Glossary

### General

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

### Holding Times

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

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

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

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

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

### Units

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

### Terms

<b>APHA</b>	American Public Health Association
<b>COC</b>	Chain of Custody
<b>CP</b>	Client Parent - QC was performed on samples pertaining to this report
<b>CRM</b>	Certified Reference Material (ISO17034) - reported as percent recovery.
<b>Dry</b>	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
<b>Duplicate</b>	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
<b>LOR</b>	Limit of Reporting.
<b>LCS</b>	Laboratory Control Sample - reported as percent recovery.
<b>Method Blank</b>	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.
<b>NCP</b>	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.
<b>RPD</b>	Relative Percent Difference between two Duplicate pieces of analysis.
<b>SPIKE</b>	Addition of the analyte to the sample and reported as percentage recovery.
<b>SRA</b>	Sample Receipt Advice
<b>Surr - Surrogate</b>	The addition of a like compound to the analyte target and reported as percentage recovery.
<b>TBTO</b>	Tributyltin oxide ( <i>bis</i> -tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
<b>TCLP</b>	Toxicity Characteristic Leaching Procedure
<b>TEQ</b>	Toxic Equivalency Quotient or Total Equivalence
<b>QSM</b>	US Department of Defense Quality Systems Manual Version 5.4
<b>US EPA</b>	United States Environmental Protection Agency
<b>WA DWER</b>	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

### QC - Acceptance Criteria

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

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

Results <10 times the LOR: No Limit

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

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

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

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

### QC Data General Comments

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

**Quality Control Results**

Test				Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code		
<b>Method Blank</b>											
<b>Heavy Metals</b>											
Arsenic				mg/L	< 0.001		0.001	Pass			
Chromium				mg/L	< 0.001		0.001	Pass			
Copper				mg/L	< 0.001		0.001	Pass			
<b>LCS - % Recovery</b>											
<b>Heavy Metals</b>											
Arsenic				%	107		80-120	Pass			
Chromium				%	102		80-120	Pass			
Copper				%	97		80-120	Pass			
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
<b>Spike - % Recovery</b>											
					Result 1						
Chromium (hexavalent)				L22-Fe37570	CP	%	98	70-130	Pass		
<b>Spike - % Recovery</b>											
<b>Heavy Metals</b>											
Arsenic				L22-Fe37570	CP	%	104	75-125	Pass		
Chromium				L22-Fe37570	CP	%	93	75-125	Pass		
Copper				L22-Fe37570	CP	%	89	75-125	Pass		
<b>Spike - % Recovery</b>											
					Result 1						
Chromium (hexavalent)				L22-Fe37580	CP	%	108	70-130	Pass		
<b>Spike - % Recovery</b>											
<b>Heavy Metals</b>											
Arsenic				L22-Fe37580	CP	%	102	75-125	Pass		
Chromium				L22-Fe37580	CP	%	92	75-125	Pass		
Copper				L22-Fe37580	CP	%	86	75-125	Pass		
<b>Spike - % Recovery</b>											
					Result 1						
Chromium (hexavalent)				L22-Fe37590	CP	%	120	70-130	Pass		
<b>Spike - % Recovery</b>											
<b>Heavy Metals</b>											
Arsenic				L22-Fe37590	CP	%	93	75-125	Pass		
Chromium				L22-Fe37590	CP	%	84	75-125	Pass		
Copper				L22-Fe37590	CP	%	81	75-125	Pass		
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code		
<b>Duplicate</b>											
					Result 1	Result 2	RPD				
Chromium (hexavalent)				L22-Fe37569	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
<b>Duplicate</b>											
<b>Heavy Metals</b>											
Arsenic				L22-Fe37569	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Chromium				L22-Fe37569	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper				L22-Fe37569	CP	mg/L	0.008	0.008	3.0	30%	Pass
<b>Duplicate</b>											
					Result 1	Result 2	RPD				
Chromium (hexavalent)				L22-Fe37579	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
<b>Duplicate</b>											
<b>Heavy Metals</b>											
Arsenic				L22-Fe37579	CP	mg/L	0.002	0.002	4.0	30%	Pass
Chromium				L22-Fe37579	CP	mg/L	0.003	0.003	5.0	30%	Pass
Copper				L22-Fe37579	CP	mg/L	0.001	0.002	20	30%	Pass

<b>Duplicate</b>								
				Result 1	Result 2	RPD		
Chromium (hexavalent)	L22-Fe37589	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass
<b>Duplicate</b>								
<b>Heavy Metals</b>				Result 1	Result 2	RPD		
Arsenic	L22-Fe37589	CP	mg/L	0.001	< 0.001	4.0	30%	Pass
Chromium	L22-Fe37589	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass
Copper	L22-Fe37589	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass

**Comments**

Eurofins | Environment Testing accreditation number 1261, site 18217 is currently in progress of a controlled transition to a new custom built location at 179 Magowar Road, Girraween, NSW 2145. All results on this report denoted as being performed by Eurofins | Environment Testing Unit F3, Building F, 16 Mars road, Lane Cove West, NSW 2066, corporate site 18217, will have been performed on either Lane Cove or new Girraween 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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

**Authorised by:**

Rhys Thomas	Analytical Services Manager
Douglas Todd	Senior Analyst-Metal (WA)
Sam Becker	Senior Analyst-Inorganic (WA)



**Kim Rodgers**  
**Business Unit 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

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