

Wentworth Shire Council
26-28 Adelaide St
Wentworth
NSW 2648



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: **Don McKinnon**

Report **752138-W**
 Project name **BURONGA LANDFILL**
 Received Date **Oct 22, 2020**

Client Sample ID			BH2	BH3	BH4	STORMWATER DAM
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Oc37443	S20-Oc37444	S20-Oc37445	S20-Oc37446
Date Sampled			Oct 19, 2020	Oct 19, 2020	Oct 19, 2020	Oct 19, 2020
Test/Reference	LOR	Unit				
Conductivity (at 25°C)	10	uS/cm	64000	54000	43000	930
pH (at 25 °C)	0.1	pH Units	6.6	5.8	4.5	8.0

Client Sample ID			LEACHATE POND
Sample Matrix			Water
Eurofins Sample No.			S20-Oc37447
Date Sampled			Oct 19, 2020
Test/Reference	LOR	Unit	
Conductivity (at 25°C)	10	uS/cm	3700
pH (at 25 °C)	0.1	pH Units	7.1

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.

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
Conductivity (at 25°C) - Method: LTM-INO-4030 Conductivity	Sydney	Oct 23, 2020	28 Days
pH (at 25 °C) - Method: LTM-GEN-7090 pH in water by ISE	Sydney	Oct 23, 2020	1 Days

Australia

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

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

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

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

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

New Zealand

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

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

Company Name:	Wentworth Shire Council	Order No.:		Received:	Oct 22, 2020 8:40 AM
Address:	26-28 Adelaide St Wentworth NSW 2648	Report #:	752138	Due:	Oct 29, 2020
Project Name:	BURONGA LANDFILL	Phone:	03 5027 5027	Priority:	5 Day
		Fax:	03 5027 5000	Contact Name:	Don McKinnon
Eurofins Analytical Services Manager : Andrew Black					

Sample Detail						Conductivity (at 25°C)	pH (at 25°C)
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Mayfield Laboratory							
External Laboratory							
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	BH2	Oct 19, 2020		Water	S20-Oc37443	X	X
2	BH3	Oct 19, 2020		Water	S20-Oc37444	X	X
3	BH4	Oct 19, 2020		Water	S20-Oc37445	X	X
4	STORMWATER DAM	Oct 19, 2020		Water	S20-Oc37446	X	X
5	LEACHATE POND	Oct 19, 2020		Water	S20-Oc37447	X	X
Test Counts						5	5

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.

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

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

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

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

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

Results <10 times the LOR : No Limit

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

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

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

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

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

QC Data General Comments

- 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.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- 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.
- 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.
- Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 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
LCS - % Recovery									
Conductivity (at 25°C)			%	101			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	S20-Oc39164	NCP	uS/cm	3300	3300	2.0	30%	Pass	

Comments
Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	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

Andrew Black	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Inorganic (NSW)


**Glenn Jackson
General Manager**

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

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

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

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CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT DETAILS		Contact Name: Don McKinnon		Purchase Order :		COC Number :	
Company Name : Wentworth Shire Council		Project Manager : As Above		PROJECT Number :		Eurofins mgt quote ID :	
Office Address : 26-28 Adelaide St Wentworth, NSW 2648		Email for results : donald.mckinnon@wentworth.nsw.gov.au		PROJECT Name : Buronga Landfill		Data output format:	

Special Directions & Comments : pH Conductivity Tests only Eurofins mgt DI water batch number:	Analytes												Some common holding times (with correct preservation). For further information contact the lab							
	Waters						Soils													
	BTEX, MAH, VOC	14 days	BTEX, MAH, VOC	14 days																
TRH, PAH, Phenols, Pesticides	7 days	TRH, PAH, Phenols, Pesticides	14 days																	
Heavy Metals	6 months	Heavy Metals	6 months																	
Mercury, CrVI	28 days	Mercury, CrVI	28 days																	
Microbiological testing	24 hours	Microbiological testing	72 hours																	
BOD, Nitrate, Nitrite, Total N	2 days	Anions	28 days																	
Solids - TSS, TDS etc	7 days	SPOCAS, pH Field and FOX, CrS	24 hours																	
Ferrous iron	7 days	ASLP, TCLP	7 days																	

Sample ID	Date	Matrix	Conductivity	pH	Containers:							Sample comments:
					500mis	250P	125P	1LA	40mL vial	125mL A	Jar	
1 BH1	19/10/2020		DRY									
2 BH2	19/10/2020		X	X	X							
3 BH3	19/10/2020		X	X	X							
4 BH4	19/10/2020		X	X	X							
5 Stormwater Dam	19/10/2020		X	X	X							
6 Leachate Pond	19/10/2020		X	X	X							
7												
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14												
15												
16												

Date & Time: Don McKinnon	Received By: <i>Quijndes</i>	Turn around time		Method Of Shipment		Temperature on arrival:
Date & Time: 19/10/2020 1PM	Date & Time: 8:40 AM 22/10/20	1 DAY <input type="checkbox"/>	2 DAY <input type="checkbox"/>	3 DAY <input type="checkbox"/>	<input checked="" type="checkbox"/> Courier	Report number:
Signature: <i>[Signature]</i>	Signature:	5 DAY <input type="checkbox"/>	10 DAY <input type="checkbox"/>	Other: <input type="checkbox"/>	<input type="checkbox"/> Hand Delivered	
				Courier Consignment # :		

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