[illegible]

Lion-Beer, Spirits & Wine Pty Ltd
Level 7, 68 York Street
Sydney NSW 2000

[illegible]

[illegible]

November 2020 Groundwater Monitoring
Tooheys Brewery
29 Nyrang Street, Lidcombe

1. Introduction

[illegible]

[illegible] *Environmental Planning and Assessment Act 1979* [illegible]

[illegible] DP's [illegible] *First Round of 2011 Groundwater Monitoring, Tooheys Brewery - 29 Nyrang Street, Lidcombe,* [illegible]

[illegible] *Field Investigation Phase 1 Contamination Assessment, 29 Nyrang Street, Lidcombe,* [illegible]

2. Site Information

3. Groundwater Default Guideline Values

Australian and New Zealand Guidelines for Fresh and Marine Water Quality ([illegible]

[illegible] *Australian and New Zealand Guidelines for Fresh and Marine Water Quality* [illegible]

- [illegible]
- [illegible]

[illegible]

[illegible]

Table 1: Groundwater Default Guideline Values (DGV) and Rationale

Contaminant	Adopted Criteria (DGV) µg/L	Source
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

4. Groundwater Monitoring Methodology and Field Observations

4.1 Identification of Wells

4.2 Frequency of Sampling

4.3 Well Development

4.4 Collection of Groundwater Samples

Field Procedures Manual

BD1/

5

4.5 Quality Assurance and Quality Control (QA / QC)

Table 2: RPD Results - Intra-laboratory Results

Well	Analyte	BH2	BD1/20201126*	Difference	RPD (%)
		<1			

4.6 Laboratory Analysis

- ✓
- ✓

Table 3: Analytical Scheme for Groundwater Samples

Sample ID	Heavy Metals	TRH	BTEX
	✓	✓	✓
	✓	✓	✓

5. Results

5.1 Field Testing Results

Table 4: Piezometric Levels

Monitoring Well	m AHD (surface)	Date			
		25/11/2020 (well development)		26/112020 (groundwater sampling)	
		m bgl	m AHD	m bgl	m AHD

Table 5: Groundwater Readings Prior to Sampling

Monitoring Well	Temperature (ºC)	Dissolved Oxygen (% saturation)	Conductivity (µS/cm)	pH	Redox (mV)

5.2 Analytical Results

6. Discussion

7. Conclusion

8. List of Previous Reports

- [illegible]
- [illegible]
- [illegible]

9. Limitations

in accordance with DP's proposal (of Tooheys Pty Ltd. The work was carried out under DP's Conditions

and also as a result of human influences. Such changes may occur after DP's field testing has been

DP's advice is based

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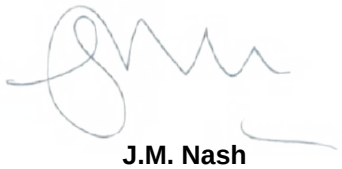
Kurt Plambeck



J.M. Nash

About this Report

Introduction

[illegible]

Copyright

[illegible]

Borehole and Test Pit Logs

[illegible]

Groundwater

- [illegible]
- [illegible]
- [illegible]

[illegible]

Reports

[illegible]

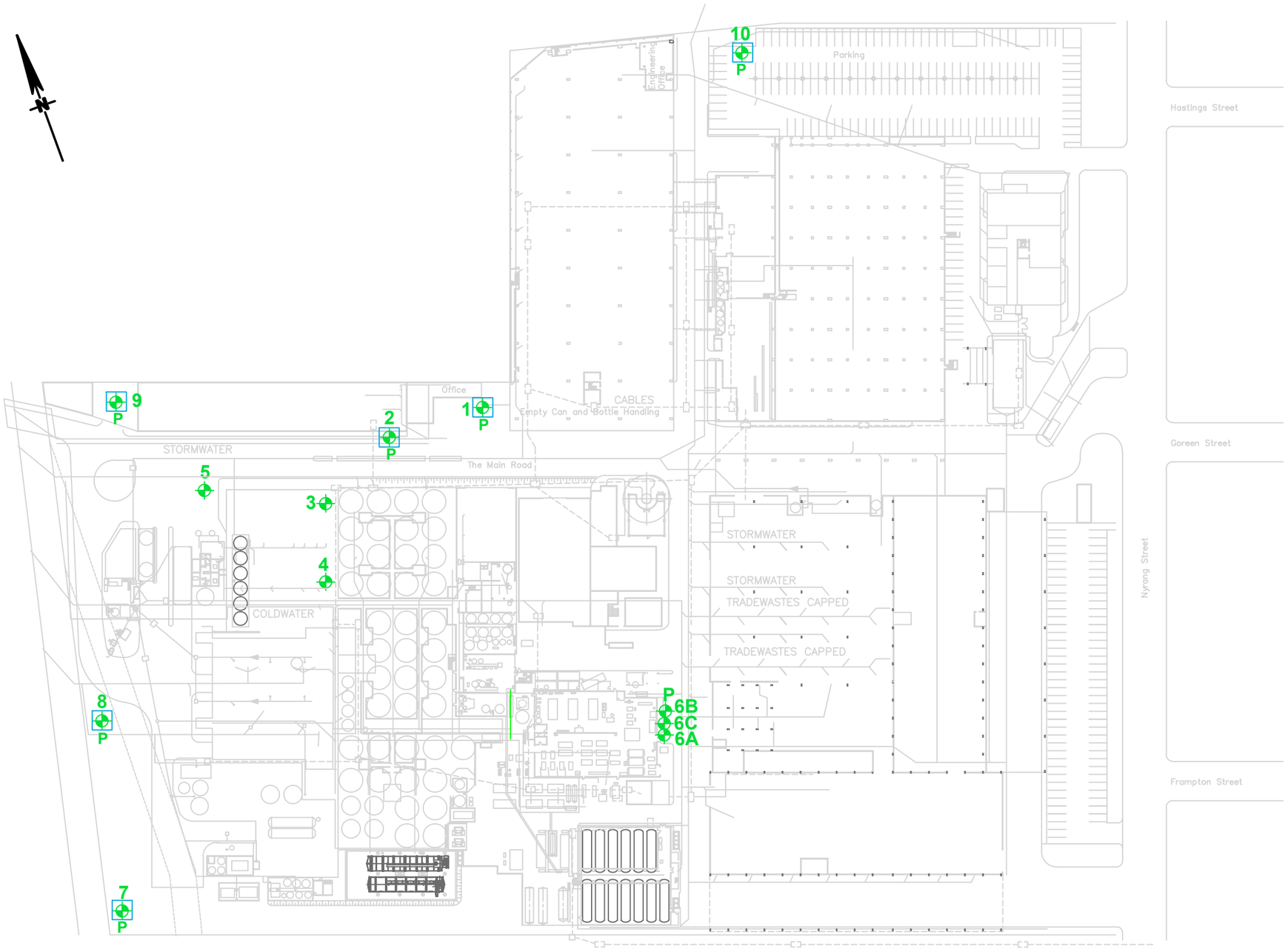
- [illegible]
- [illegible]
- [illegible]

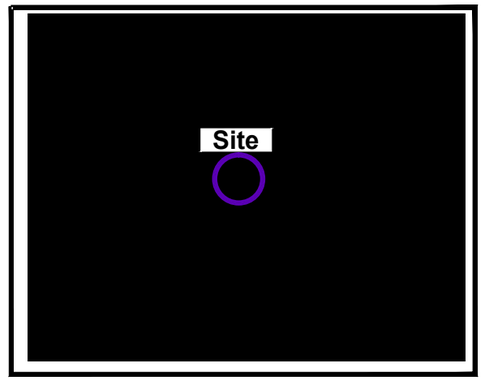
About this Report

Site Anomalies

Information for Contractual Purposes

Site Inspection





Locality Plan

LEGEND

- Test Bore Location
- P Piezometer
- Monitoring Well

SCALE
0 50 100m
1:1500

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CLIENT: Tooheys Pty Ltd		
DRAWN BY: PSCH	SCALE: As shown	OFFICE: Sydney
APPROVED□Y:		DATE: 5□□□□□□□

TITLE: **Location of Monitoring Wells**
Groundwater Monitoring
29 Nyrang Street, LIDCOMBE

PROJECT No:	71021.□5
DRAWING No:	1
REVISION:	0

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	**BH1**		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nyrnag Street, Lidcombe		
Bore RL	6.5 m AHD		
Bore Easting:		Northing:	
Installation Date:	24-Oct-16		
GW Level (during drilling):	m bgl		
Well Depth:	14.2 m bgl		
Screened Interval:	2.0-14.2 m bgl		
Contaminants/Comments:			

Bore Development Details	
Date/Time:	25.11.20
Purged By:	TG
GW Level (pre-purge):	2.43 m bgl
GW Level (post-purge):	4.29 m bgl
PSH observed:	Yes / (No) (interface/visual). ? mm thick
Observed Well Depth:	14.12 m bgl
Estimated Bore Volume:	L
Total Volume Purged:	100 L
Equipment:	12 Volt pump

Micropurge and Sampling Details	
Date/Time:	26.11.20 12:40
Sampled By:	TG
Weather Conditions:	Sunny
GW Level (pre-purge):	2.52 m bgl
GW Level (post sample):	2.31 m bgl
PSH observed:	Yes / (No) (interface/visual). ? mm thick
Observed Well Depth:	14.12 m bgl
Estimated Bore Volume:	L
Total Volume Purged:	9 L
Equipment:	peristaltic pump and TPS multimeter

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
12:46/1	21.5	0.34	1515	6.41		-102.4
12:47/2	21.2	0.36	2210	6.12		-114.9
12:49/3	21.3	0.29	3490	5.95		-101.4
12:51/4	21.6	0.26	4094	5.94		-93.7
12:53/5	21.7	0.27	4167	5.94		-91.7
12:55/6	21.7	0.30	4181	5.94		-89.2
12:57/7	21.7	0.29	4174	5.94		-89.5
12:59/8	21.7	0.28	4189	5.94		-89.6
Additional Readings Following stabilisation:	DO % Sat: 35	SPC: 4477	TDS:			

Sample Details

Sampling Depth (rationale):	8.0 m bgl. Middle of water column
Sample Appearance (e.g. colour, siltiness, odour):	Slightly silty, pale white, no odour
Sample ID:	BH1
QA/QC Samples:	—
Sampling Containers and filtration:	500mL glass, 2x 40mL glass vials (HCl), 1x 100mL plastic (HNO3 (filtered)
Comments / Observations:	

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	**BH2**		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nyrnag Street, Lidcombe		
Bore RL	6.2 m AHD		
Bore Easting:		Northing:	
Installation Date:	20-Oct-16		
GW Level (during drilling):	m bgl		
Well Depth:	14.5 m bgl		
Screened Interval:	2.0-14.5 m bgl		
Contaminants/Comments:			
Bore Development Details			
Date/Time:	25.11.20		
Purged By:	TH		
GW Level (pre-purge):	2.43 m bgl		
GW Level (post-purge):	4.39 m bgl		
PSH observed:	Yes / No (interface/visual). ? mm thick		
Observed Well Depth:	14.15 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	100 L		
Equipment:	12 Volt pump		
Micropurge and Sampling Details			
Date/Time:	26.11.20 / 11:39		
Sampled By:	Lisa Teng		
Weather Conditions:	Sunny		
GW Level (pre-purge):	2.54 m bgl		
GW Level (post sample):	3.32 m bgl		
PSH observed:	Yes / No (interface/visual). ? mm thick		
Observed Well Depth:	14.15 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	8 L		
Equipment:	peristaltic pump and TPS multimeter		

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
11:40/1	21.6	0.74	11519	6.45		-8.0
11:42/2	21.6	0.72	11504	6.44		-9.8
11:44/3	21.6	0.69	11493	6.44		-10.9
11:46/4	21.6	0.57	11458	6.44		-14.7
11:48/5	21.6	0.55	11451	6.44		-16.7
11:50/6	21.6	0.55	11365	6.45		-18.9
11:52/7	21.7	0.51	11386	6.45		-20.5

Additional Readings Following stabilisation:	DO % Sat	SPC	TDS
	4.6	12145	

Sample Details

Sampling Depth (rationale):	9.0 m bgl, Middle of water column
Sample Appearance (e.g. colour, siltiness, odour):	Clear, no odour
Sample ID:	BH2
QC Samples:	BD1/20201126
ling Containers and	500mL glass, 2x 40mL glass vials (HCl), 1x 100mL plastic (HNO3 (filtered)
bservations:	

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	BH7		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nymag Street, Lidcombe		
Bore RL	6.4 m AHD		
Bore Easting:		Northing:	
Installation Date:	7-Dec-16		
GW Level (during drilling):	m bgl		
Well Depth:	6.5 m bgl		
Screened Interval:	1.5-6.5 m bgl		
Contaminants/Comments:	Bend in pipe - development requires peristaltic pump		
Bore Development Details			
Date/Time:	25.11.20 10:15		
Purged By:	TG		
GW Level (pre-purge):	3.54 m bgl		
GW Level (post-purge):	4.87 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	5.47 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	10 L		
Equipment:	12 Volt pump		
Micropurge and Sampling Details			
Date/Time:	26.11.20 09:15		
Sampled By:	~~Hea Teng~~ TG		
Weather Conditions:	Sunny		
GW Level (pre-purge):	3.63 m bgl		
GW Level (post sample):	4.42 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	5.47 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	5 L		
Equipment:	peristaltic pump and TPS multimeter		

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
0920 / 1	20.0	~~4.0~~ 0.36	587	5.14		49.3
0922 / 2	19.9	0.64	588	5.11		49.6
0924 / 3	19.9	0.74	594	5.12		40.7
0926 / 4	19.9	0.80	593	5.02		50.2
0928 / 5	19.9	0.79	589	5.07		45.7

Additional Readings Following stabilisation:	DO % Sat	SPC	TDS			
	5.8	689				

Sample Details

Sampling Depth (rationale):	4.5 m bgl, middle of water column
Sample Appearance (e.g. colour, siltiness, odour):	Clear, pale yellow / no odour
Sample ID:	BH7
QA/QC Samples:	—
Sampling Containers and [illegible]:	500mL glass, 2x 40mL glass vials (HCl) , 1x 100mL plastic (HNO3 (filtered)
[illegible] Observations:	

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	**BH8**		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nyrnag Street, Lidcombe		
Bore RL	6.5 m AHD		
Bore Easting:		Northing:	
Installation Date:	7-Dec-06		
GW Level (during drilling):	m bgl		
Well Depth:	8.25 m bgl		
Screened Interval:	2.0-8.25 m bgl		
Contaminants/Comments:			
Bore Development Details			
Date/Time:	25.11.20		
Purged By:	TL		
GW Level (pre-purge):	4.45 m bgl		
GW Level (post-purge):	7.91 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	8.25 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	200 L		
Equipment:	12 Volt pump		
Micropurge and Sampling Details			
Date/Time:	26.11.20 09:56		
Sampled By:	Lisa Teng		
Weather Conditions:	Sunny		
GW Level (pre-purge):	4.53 m bgl		
GW Level (post sample):	5.72 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	8.25 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	8 L		
Equipment:	peristaltic pump and TPS multimeter		

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
09:58 / 1	23.2	1.04	21038	5.9		57
10:00 / 2	23.2	0.69	20974	5.89		49.9
10:02 / 3	23.2	0.61	20942	5.88		43.7
10:04 / 4	23.2	0.62	20928	5.88		37.3
10:06 / 5	23.2	0.63	20926	5.87		37.3
10:08 / 6	23.2	0.67	20908	5.87		31.3
10:10 / 7	23.2	0.63	20945	5.87		30.6
Additional Readings Following stabilisation:	DO % Sat: 7.8	SPC: 21089	TDS:			

Sample Details

Sampling Depth (rationale):	6 m bgl. Middle of water column
Sample Appearance (e.g. colour, siltiness, odour):	Clear, no odour
Sample ID:	BH8
QA/QC Samples:	-
Sampling Containers and filtration:	500mL glass, 2x 40mL glass vials (HCl), 1x 100mL plastic (HNO3 (filtered)
Comments / Observations:	

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	**BH9**		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nyrnag Street, Lidcombe		
Bore RL	6.0 m AHD		
Bore Easting:		Northing:	
Installation Date:	7 December 20016		
GW Level (during drilling):	m bgl		
Well Depth:	6.5 m bgl		
Screened Interval:	1.5-6.5 m bgl		
Contaminants/Comments:			
Bore Development Details			
Date/Time:	25.11.20		
Purged By:	TG		
GW Level (pre-purge):	4.14 m bgl		
GW Level (post-purge):	6.35 m bgl		
PSH observed:	Yes / No (interface/visual). ? mm thick		
Observed Well Depth:	6.70 m bgl		
Estimated Bore Volume:	1 L		
Total Volume Purged:	15 L		
Equipment:	12 Volt pump		
Micropurge and Sampling Details			
Date/Time:	26.11.20 10:33		
Sampled By:	~~Lisa Teng~~ TG		
Weather Conditions:	Sunny		
GW Level (pre-purge):	4.34 m bgl		
GW Level (post sample):	2-.5 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	6.70 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	9 L		
Equipment:	peristaltic pump and TPS multimeter		

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
10:35 / 1	20.9	3.2	10258	6.26		11.2
10:37 / 2	20.7	3.03	9718	6.21		8.5
10:39 / 3	20.7	2.91	9351	6.16		8.5
10:41 / 4	20.7	2.81	9141	6.14		7.8
10:43 / 5	20.7	2.61	9810	6.17		4.4
10:45 / 6	20.8	2.46	10157	6.18		1.8
10:47 / 7	20.8	2.35	10220	6.19		-0.1
10:49 / 8	20.9	2.38	10234	6.19		-1.4
Additional Readings Following stabilisation:	DO % Sat: 26	SPC: 11314	TDS:			

Sample Details

Sampling Depth (rationale):	5.5 m bgl, Middle of water column
Sample Appearance (e.g. colour, siltiness, odour):	Clear, no odour
Sample ID:	BH9
QA/QC Samples:	—
Sampling Containers and filtration:	500mL glass, 2x 40mL glass vials (HCl) , 1x 100mL plastic (HNO3 (filtered)
Comments / Observations:	

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Groundwater Field Sheet

Project and Bore Installation Details			
Bore / Standpipe ID:	**BH10**		
Project Name:	Tooheys August 2020 Monitoring		
Project Number:	71021.15		
Site Location:	29 Nyrnag Street, Lidcombe		
Bore RL	5.1 m AHD		
Bore Easting:		Northing:	
Installation Date:	7-Dec-06		
GW Level (during drilling):	m bgl		
Well Depth:	5 m bgl		
Screened Interval:	1.5-5.0 m bgl		
Contaminants/Comments:			
Bore Development Details			
Date/Time:	25.11.20		
Purged By:	TG		
GW Level (pre-purge):	1.42 m bgl		
GW Level (post-purge):	3.79 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	4.20 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	5 L		
Equipment:	12 Volt pump		
Micropurge and Sampling Details			
Date/Time:	26.11.20 1336		
Sampled By:	~~Lisa Teng~~ TG		
Weather Conditions:	Sunny		
GW Level (pre-purge):	3.52 m bgl		
GW Level (post sample):	4.15 m bgl		
PSH observed:	Yes / (No) (interface/visual). ? mm thick		
Observed Well Depth:	4.20 m bgl		
Estimated Bore Volume:	L		
Total Volume Purged:	2.5 L		
Equipment:	peristaltic pump and TPS multimeter		

Water Quality Parameters

Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Turbidity	Redox (mV)
Stabilisation Criteria (3 readings)	**0.1°C**	**+/- 0.3 mg/L**	**+/- 3%**	**+/- 0.1**	**+/- 10%**	**+/- 10 mV**
1337/1	25.3	1.37	6894	6.44		-90.1
1339/2	20.3	1.84	6873	6.39		-77.8
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS			

Sample Details

Sampling Depth (rationale):	4. m bgl.
Sample Appearance (e.g. colour, siltiness, odour):	Slightly silty, pale yellow, no odour
Sample ID:	BH10
QA/QC Samples:	—
Sampling Containers and filtration:	500mL glass, 2x 40mL glass vials (HCl), 1x 100mL plastic (HNO3 (filtered)
Comments / Observations:	well pumped dry after 2.5L. sampled post recharge.

Calibration & Service Report
Water Quality Meter

Company:	Active Environmental Solutions Hire	**Manufacturer:**	YSI	**Serial #:**	17D105826
Address:	Unit 16, 191 Parramatta Road AUBURN NSW 2144	**Instrument/Model:**	WQM Professional Plus w/ Quatro Cable	**Cable Length:**	1m
Phone:	02 9716 5966 | **Fax**: 02 9716 5988	**Client Company:**		**Client Email:**	
Email:	hire@aesoultions.com.au	**Client Name:**		**Client Phone:**	

Item	Test	Pass	Comments
Battery	2 x Alkaline C-cells	✓☐	Voltage reading above 2.9V
	Battery Saver	✓☐	Automatically turns off after 60 minutes if not used
Connections	Condition	✓☐	Good, clean
Cable	Condition	✓☐	Clean, no tears
Display	Operation	✓☐	
Firmware	Version	✓☐	4.0.0
Keypad	Operational	✓☐	
Display	Screen	✓☐	
Unit	Condition, seals and O-rings	✓☐	
Monitor housing	Condition	✓☐	
pH			
Condition		✓☐	Good, clean
pH millivolts for pH7 calibration range 0 mV ± 50 mV		✓☐	
pH 4 mV range + 165 to + 180 from 7 buffer mV value		✓☐	
pH slope		✓☐	55 to 60 mV/pH; ideal 59mV
Response time < 90 seconds		✓☐	
Calibrated and conforms to manufacturer's specifications		✓☐	
ORP			
Condition		✓☐	Good, clean
Response time < 90 seconds		✓☐	
within ± 80mv of reference Zobell Reading		✓☐	
Calibrated and conforms to manufacturer's specifications		✓☐	Variance range ± 20mV
Conductivity			
Condition		✓☐	Good, clean
Temperature		✓☐	°C
Conductivity cell constant 5.0 ± 1.0 in GLP file		✓☐	
Clean sensor reads less than 3 uS/cm in dry air		✓☐	
Calibrated and conforms to manufacturer's specifications		✓☐	µs/cm
Dissolved Oxygen			
Condition		✓☐	Good, clean
DO sensor in use		✓☐	Polarographic
1.25 mil PE membrane (yellow membrane):		✓☐	
DO Sensor Value		✓☐	(min 4.31 uA - max 8.00 uA) Avg 6.15 uA
Calibrated and conforms to manufacturer's specifications		✓☐	ppm

Instrument Readings

Parameter	Standards	Reference	Calibration Point	Before	After	Units
Temperature	Center 370 Thermometer	Room Temp.	23.0	N/A	23.1	°C
pH	pH 4.00	349389	4.01	4.01	4.01	pH
pH	pH 7.00	349958	7.00	6.95	7.00	pH
Conductivity	2760 µs/cm at 25°C	354236	2760	2745	2760	µs/cm
ORP (Ref. check only)	Zobell A & B	340526 & 340529	231.4	225.0	231.4	mV
Zero Dissolved Oxygen	NaSO3 in distilled water	323461/V070819	0.0	-0.3	0.0	%
100% Dissolved Oxygen	100% Air Saturation	Fresh Air	100.0	129.0	100.0	%

Calibrated By: Milenko Sisic

Calibration Date: 25/11/2020 **Calibration Due:** 25/05/2021

Table 6: Results of Laboratory Analysis in July 2014 (μg/L)

Well	Hardness	Heavy Metals[1]								TRH		Benzene	Toluene	Ethyl-benzene	Total Xylene
	(mg $CaCO_3$ /L)	As	Cd	Cr[3]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{36}				
[illegible]	1[illegible]	<1	<0[illegible]	[illegible]	1	<1	<0[illegible]5	4	[illegible]2	[illegible]0	[illegible]5[illegible]	<1	[illegible]	[illegible]	[illegible]
[illegible]D[illegible] [illegible]8[illegible]1[illegible]	[illegible]	<1	<0[illegible]	[illegible]	[illegible]	<1	<0[illegible]5	3	[illegible]4	[illegible]0	[illegible]5[illegible]	<1	[illegible]	[illegible]	[illegible]
[illegible]	8[illegible]	<1	[illegible].2	[illegible]	4	<1	<0[illegible]5	9	[illegible]0	[illegible]0	[illegible]5[illegible]	<1	[illegible]	[illegible]	[illegible]
[illegible]	1[illegible]	<1	<0[illegible]	[illegible]	3	<1	<0[illegible]5	6	[illegible]8	[illegible]0	[illegible]5[illegible]	<1	[illegible]	[illegible]	[illegible]
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1[illegible]	3[illegible]	<1	<0[illegible]	[illegible]	4	<1	<0[illegible]5	6	[illegible]4	[illegible]0	[illegible]5[illegible]	<1	[illegible]	[illegible]	[illegible]
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Table 7: Results of Laboratory Analysis in October 2015 (µg/L)

Well	Hardness (mg $CaCO_3$ /L)	Heavy Metals[1]								TRH		Benzene	Toluene	Ethyl-benzene	Total Xylene
		As	Cd	Cr^3	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{36}				

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Table 8: Results of Laboratory Analysis in January 2016 (µg/L)

Well	Hardness (mg $CaCO_3$ /L)	Heavy Metals[1]								TRH			Benzene	Toluene	Ethyl-benzene	Total Xylene
		As	Cd	Cr^3	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{36}	>C_{10}-C_{16}				
GIL																

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Table 9: Results of Laboratory Analysis in January / February 2017 (µg/L)

Well	Heavy Metals[1]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene
	As	Cd	Cr^3	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C36	>C_{10}-C_{16}				
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□□	□□	□□.1□	<1□	<1□	□□□	□□.05□	□□	□□	<1□□	<5□□	□□0□□	<1□□□	□5□□	□□□	<1□	□□□	<3□
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Table 10: Results of Laboratory Analysis in March 2017 (µg/L)

Well	Heavy Metals[1]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene
	As	Cd	Cr^3	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C36	>C_{10}-C_{16}				
GIL																	

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Table 11: Results of Laboratory Analysis in August 2017 (µg/L)

Well	Heavy Metals^1								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene
	As	Cd	Cr^3	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C36	>C_{10}-C_{16}				
[illegible]	[illegible]	[illegible].1	<1	<1	[illegible]	[illegible].05	5	[illegible]9	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]	[illegible]	[illegible].1	<1	<1	[illegible]	[illegible].05	[illegible]	[illegible]2	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]D[illegible]	[illegible]	[illegible].1	<1	<1	[illegible]	[illegible].05	[illegible]	[illegible]3	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]	[illegible]	[illegible].1	<1	<1	[illegible]	[illegible].05	[illegible]	[illegible]9	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]	[illegible]	1	<1	**27**	[illegible]	[illegible].05	[illegible]	[illegible]0	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]	5	[illegible].1	<1	[illegible]	[illegible]	[illegible].05	[illegible]	**420**	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
[illegible]0[illegible]	5	[illegible].1	<1	[illegible]	[illegible]	[illegible].05	[illegible]	[illegible]4	<1	<5	[illegible]0	<1	[illegible]5	[illegible]	<1	[illegible]	<3
GIL	[illegible]3	3[illegible]5	[illegible].	[illegible].7	[illegible]05	[illegible]	1[illegible]	[illegible]4[illegible]3	1[illegible]	[illegible]5[illegible]			5[illegible]	[illegible]50	[illegible]8	8[illegible]	550

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Table 12: Results of Laboratory Analysis in November 2017 (µg/L)

Well	Heavy Metals[1]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene
	As	Cd	Cr[3]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C36	>C_{10}-C_{16}				
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GIL	1□□	□5□	1□□□□	2□□□□	2□5□	0□6□	□7□□	1□□.3□	□□□	□50□			5□□	□50□	□□0□	□0□	550□

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Table 13: Results of Laboratory Analysis in August 2018 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
[illegible]	[illegible]	[illegible]	[illegible]	**3**	[illegible]	[illegible]5	5	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	**3**	[illegible]	[illegible]5	3	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]D[illegible]0 [illegible]8[illegible]2 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]5	3	9	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1	[illegible].[illegible]	[illegible]	**4**	[illegible]	[illegible]5	[illegible]	**670**	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible].[illegible]	[illegible]	**10**	[illegible]	[illegible]5	3	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	**5**	[illegible]	[illegible]5	7	[illegible]1	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	**3**	[illegible]	[illegible]5	8	5	**22**	**190**	**610**	**<100**	**230**	[illegible]	[illegible]	[illegible]	[illegible]
DGV[1]	1	[illegible].[illegible]	3[illegible]	1[illegible]4	1[illegible].[illegible]	0[illegible]	[illegible]2[illegible]	[illegible].4	1	[illegible]50			5	[illegible]50	[illegible]0	[illegible]0	550[5]

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Table 14: Results of Laboratory Analysis in November 2018 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
1	[illegible]	<0 [illegible]	<1	**2**	<[illegible]	<0 [illegible]5	6	45	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
2	[illegible]	<0 [illegible]	<1	1	<[illegible]	<0 [illegible]5	4	1[illegible]	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
[illegible]D[illegible]/ [illegible]0[illegible]	[illegible]	<0 [illegible]	<1	[illegible]	<[illegible]	<0 [illegible]5	4	1[illegible]	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
7	**15**	<0 [illegible]	<1	1	<[illegible]	<0 [illegible]5	9	1[illegible]	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
8	[illegible]	[illegible]	<1	**5**	<[illegible]	<0 [illegible]5	4	2[illegible]	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
9	[illegible]	<0 [illegible]	[illegible]	**14**	<[illegible]	<0 [illegible]5	[illegible]	**250**	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
[illegible]	[illegible]	<0 [illegible]	<1	**6**	<[illegible]	<0 [illegible]5	6	3[illegible]	[illegible]	[illegible]5	[illegible]0	[illegible]0	[illegible]50	<1	<1	<1	<3
DGV[1]	[illegible]3	[illegible]	[illegible]. [illegible]	1[illegible]4	[illegible]2[illegible]	[illegible].6	[illegible]0[illegible]	8[illegible]	1[illegible]	[illegible]50			50	95[illegible]	[illegible]8[illegible]	[illegible]	55[illegible]5

[illegible]

1 D[illegible]V [illegible]r[illegible] [illegible]d [illegible]d [illegible]r[illegible]d[illegible]d [illegible]ustral a[illegible]d [illegible]d [illegible]d [illegible]r[illegible]F r[illegible]sh [illegible]d[illegible]M[illegible]r[illegible] [illegible]r[illegible], [illegible]2[illegible]8 [illegible]

2 H[illegible]vy [illegible]r[illegible]d[illegible]r[illegible]d[illegible]d[illegible]r[illegible]rd[illegible]50 [illegible]

3 [illegible]d[illegible]r[illegible]of [illegible]lis[illegible]e[illegible] [illegible]d [illegible]

4 All ch[illegible] ium [illegible]r[illegible]d[illegible]xi[illegible]t [illegible]r[illegible]d[illegible]sta[illegible], as [illegible]r[illegible]to[illegible]r[illegible]d[illegible]d[illegible]r[illegible]r[illegible]r[illegible].

5 m+p [illegible]xyl[illegible]e[illegible]

bold [illegible]d[illegible]IL[illegible]

Table 15: Results of Laboratory Analysis in August / September 2019 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
1	[illegible]	<0 [illegible]	<1	**2**	< [illegible]	<0 [illegible]5	3	6 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
2	[illegible]	[illegible]	<1	**2**	< [illegible]	<0 [illegible]5	4	1 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
D / [illegible] 2 [illegible] 9 [illegible] 2 [illegible]	[illegible]	[illegible]	<1	**2**	< [illegible]	<0 [illegible]5	4	1 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
7	**42**	<0 [illegible]	<1	1	< [illegible]	<0 [illegible]5	[illegible]	1 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
8	[illegible]	[illegible]	<1	**8**	< [illegible]	<0 [illegible]5	4	1 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
9	[illegible]	<0 [illegible]	<1	**2**	< [illegible]	<0 [illegible]5	3	3 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
[illegible]	[illegible]	<0 [illegible]	<1	**2**	< [illegible]	<0 [illegible]5	[illegible]	3 [illegible]	[illegible]	[illegible]5 [illegible]	[illegible]0 [illegible]	[illegible]0 [illegible]	[illegible]50	<1	<1	<1	<3
DGV[1]	[illegible]3	[illegible]	[illegible]. [illegible]	1 [illegible]4	[illegible]2 [illegible]	[illegible].6	[illegible]0 [illegible]	8 [illegible]	1 [illegible]	[illegible]50			50	95 [illegible]	[illegible]8 [illegible]	[illegible]	55 [illegible][5]

[illegible]

1 D [illegible] r [illegible] d [illegible] d [illegible] r [illegible] d d [illegible] r [illegible] d [illegible] d [illegible] d [illegible] r Fr sh [illegible] d M r [illegible] r [illegible], [illegible] 2 [illegible] 8 [illegible]

2 H [illegible] vy [illegible] r [illegible] d [illegible] r [illegible] d [illegible] d [illegible] r [illegible] rd [illegible] 50 [illegible]

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5 m+p [illegible] xyl [illegible] e

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Table 16: Results of Laboratory Analysis in November 2019 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
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DGV[1]	□□□	□□□	□□□	□□□[5]□	□□□	□□□	□□□	□□□	□□□	□5□□			5□□	□5□□	□□□	□□□	55□[5]□

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Table 17: Results of Laboratory Analysis in May 2020 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
[illegible]	[illegible]	[illegible]	[illegible]	**7**	[illegible]	5	[illegible]	[illegible]	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
D / 2 5	2	[illegible]	[illegible]	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	**17**	[illegible]	5	5	3	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	**19**	[illegible]	5	1	6	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	.	[illegible]	**26**	[illegible]	5	1	8	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	**20**	[illegible]	5	[illegible]	9	[illegible]	5	<1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	**9**	[illegible]	5	[illegible]	4	[illegible]	5	1	[illegible]	5	<1	[illegible]	[illegible]	[illegible]
DGV[1]	1	.	3	[illegible]	1 .	0	1 .2	7 4	0	25			5	95	0	0	55[5]

[illegible]

1 D V [illegible] r [illegible] d [illegible] d [illegible] r [illegible] d d [illegible] r [illegible] d [illegible] d [illegible] d [illegible] r F r sh [illegible] d M r [illegible] r [illegible] , [illegible] 2 [illegible] 8

2 H [illegible] vy [illegible] r [illegible] d [illegible] r [illegible] d [illegible] d [illegible] r a [illegible] rd [illegible] 5 0 m /L

3 [illegible] d r [illegible] of [illegible] lis e d [illegible] d [illegible]

4 All ch r [illegible] ium [illegible] r [illegible] d [illegible] xi t [illegible] r [illegible] d [illegible] sta [illegible], as [illegible] r [illegible] to [illegible] r [illegible] d [illegible] d r [illegible] r [illegible] r [illegible] .

5 m+p [illegible] xyl [illegible] e

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Table 18: Results of Laboratory Analysis in November 2020 (µg/L)

Well	Heavy Metals[2]								TRH					Benzene	Toluene	Ethyl-benzene	Total Xylene[5]
	As	Cd	Cr[4]	Cu	Pb	Hg	Ni	Zn	C_6-C_9	C_{10}-C_{14}	C_{15}-C_{28}	C_{29}-C_{36}	>C_{10}-C_{16}				
[illegible]	2	<0 [illegible]	[illegible]	<1	[illegible]	[illegible]5	3	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
[illegible]	[illegible]	<0 [illegible]	[illegible]	<1	[illegible]	[illegible]5	4	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
[illegible]D[illegible]0[illegible]1[illegible]6	2	<0 [illegible]	[illegible]	<1	[illegible]	[illegible]5	3	[illegible]5	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
[illegible]	1	<0 [illegible]	[illegible]	**5**	[illegible]	[illegible]5	8	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
[illegible]	[illegible]	1 [illegible]	[illegible]	**21**	[illegible]	[illegible]5	5	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
[illegible]	2	<0 [illegible]	[illegible]	<1	[illegible]	[illegible]5	3	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
10	2	<0 [illegible]	[illegible]	**16**	[illegible]	[illegible]5	[illegible]0	[illegible]	<1	[illegible]5	[illegible]0	[illegible]0	[illegible]5	<1	[illegible]	<1	[illegible]
DGV[1]	1[illegible]	2[illegible]	[illegible].1	[illegible].4	[illegible]2[illegible]	0[illegible]6	[illegible]2[illegible]	8[illegible]	[illegible]	[illegible]50			5[illegible]	[illegible]5	[illegible]0	[illegible]	55[illegible]

[illegible]

1 D[illegible]r[illegible]d[illegible]d[illegible]ustral a[illegible]d[illegible]d[illegible]r[illegible]F r[illegible]sh[illegible]d[illegible]M[illegible]r[illegible]r[illegible], [illegible]2[illegible]8

2 H[illegible]vy [illegible]r[illegible]d[illegible]r[illegible]d[illegible]d[illegible]r[illegible]rd[illegible]50[illegible]

3 [illegible]d[illegible]r[illegible]of [illegible]lis[illegible]e[illegible]d[illegible]

4 All ch[illegible]ium [illegible]r[illegible]d[illegible]xi[illegible]t[illegible]r[illegible]d[illegible]sta[illegible], as [illegible]r[illegible]to[illegible]r[illegible]d[illegible]d[illegible]r[illegible]r[illegible]r[illegible].

5 m+p [illegible]xyl[illegible]e

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CERTIFICATE OF ANALYSIS 256893

Client Details

Client	Douglas Partners Pty Ltd
Attention	Kurt Plambeck
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details

Your Reference	**71021.15, Lidcombe**
Number of Samples	7 WATER
Date samples received	27/11/2020
Date completed instructions received	27/11/2020

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	04/12/2020
Date of Issue	04/12/2020

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Loren Bardwell, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water						
Our Reference		256893-1	256893-2	256893-3	256893-4	256893-5
Your Reference	UNITS	BH1	BH2	BH7	BH8	BH9
Date Sampled		26/11/2020	26/11/2020	26/11/2020	26/11/2020	26/11/2020
Type of sample		WATER	WATER	WATER	WATER	WATER
Date extracted	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	02/12/2020	02/12/2020	02/12/2020	02/12/2020	02/12/2020
TRH C_6 - C_9	µg/L	<10	<10	<10	<10	<10
TRH C_6 - C_{10}	µg/L	<10	<10	<10	<10	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	117	119	114	117	104
Surrogate toluene-d8	%	96	97	98	98	97
Surrogate 4-BFB	%	110	108	98	89	100

vTRH(C6-C10)/BTEXN in Water			
Our Reference		256893-6	256893-7
Your Reference	UNITS	BH10	BD1
Date Sampled		26/11/2020	26/11/2020
Type of sample		WATER	WATER
Date extracted	-	01/12/2020	01/12/2020
Date analysed	-	02/12/2020	02/12/2020
TRH C_6 - C_9	µg/L	<10	<10
TRH C_6 - C_{10}	µg/L	<10	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10	<10
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	<1
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	<2	<2
o-xylene	µg/L	<1	<1
Naphthalene	µg/L	<1	<1
Surrogate Dibromofluoromethane	%	126	116
Surrogate toluene-d8	%	96	98
Surrogate 4-BFB	%	94	102

svTRH (C10-C40) in Water						
Our Reference		256893-1	256893-2	256893-3	256893-4	256893-5
Your Reference	UNITS	BH1	BH2	BH7	BH8	BH9
Date Sampled		26/11/2020	26/11/2020	26/11/2020	26/11/2020	26/11/2020
Type of sample		WATER	WATER	WATER	WATER	WATER
Date extracted	-	30/11/2020	30/11/2020	30/11/2020	30/11/2020	30/11/2020
Date analysed	-	30/11/2020	30/11/2020	30/11/2020	30/11/2020	30/11/2020
TRH C_{10} - C_{14}	µg/L	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TRH >C_{10} - C_{16}	µg/L	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	<50	<50	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	102	99	107	94	95

svTRH (C10-C40) in Water			
Our Reference		256893-6	256893-7
Your Reference	UNITS	BH10	BD1
Date Sampled		26/11/2020	26/11/2020
Type of sample		WATER	WATER
Date extracted	-	30/11/2020	30/11/2020
Date analysed	-	30/11/2020	30/11/2020
TRH C_{10} - C_{14}	µg/L	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100
TRH >C_{10} - C_{16}	µg/L	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100
Surrogate o-Terphenyl	%	90	95

HM in water - dissolved						
Our Reference		256893-1	256893-2	256893-3	256893-4	256893-5
Your Reference	UNITS	BH1	BH2	BH7	BH8	BH9
Date Sampled		26/11/2020	26/11/2020	26/11/2020	26/11/2020	26/11/2020
Type of sample		WATER	WATER	WATER	WATER	WATER
Date prepared	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Date analysed	-	01/12/2020	01/12/2020	01/12/2020	01/12/2020	01/12/2020
Arsenic-Dissolved	µg/L	2	<1	1	<1	2
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	1.2	<0.1
Chromium-Dissolved	µg/L	<1	<1	<1	<1	<1
Copper-Dissolved	µg/L	<1	<1	5	21	<1
Lead-Dissolved	µg/L	<1	<1	<1	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	3	4	8	5	3
Zinc-Dissolved	µg/L	11	17	11	31	12

HM in water - dissolved			
Our Reference		256893-6	256893-7
Your Reference	UNITS	BH10	BD1
Date Sampled		26/11/2020	26/11/2020
Type of sample		WATER	WATER
Date prepared	-	01/12/2020	01/12/2020
Date analysed	-	01/12/2020	01/12/2020
Arsenic-Dissolved	µg/L	2	2
Cadmium-Dissolved	µg/L	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	<1
Copper-Dissolved	µg/L	16	<1
Lead-Dissolved	µg/L	<1	<1
Mercury-Dissolved	µg/L	<0.05	<0.05
Nickel-Dissolved	µg/L	10	3
Zinc-Dissolved	µg/L	74	15

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-020	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-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			01/12/2020	1	01/12/2020	01/12/2020		01/12/2020	[NT]
Date analysed	-			02/12/2020	1	02/12/2020	02/12/2020		02/12/2020	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	1	<10	<10	0	106	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	1	<10	<10	0	106	[NT]
Benzene	µg/L	1	Org-023	<1	1	<1	<1	0	101	[NT]
Toluene	µg/L	1	Org-023	<1	1	<1	<1	0	112	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	113	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	102	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	112	[NT]
Naphthalene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	107	1	117	101	15	99	[NT]
Surrogate toluene-d8	%		Org-023	98	1	96	100	4	99	[NT]
Surrogate 4-BFB	%		Org-023	97	1	110	105	5	97	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			30/11/2020	[NT]	[NT]	[NT]	[NT]	30/11/2020	[NT]
Date analysed	-			30/11/2020	[NT]	[NT]	[NT]	[NT]	30/11/2020	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	104	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
Surrogate o-Terphenyl	%		Org-020	111	[NT]	[NT]	[NT]	[NT]	81	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	256893-2
Date prepared	-			01/12/2020	1	01/12/2020	01/12/2020		01/12/2020	01/12/2020
Date analysed	-			01/12/2020	1	01/12/2020	01/12/2020		01/12/2020	01/12/2020
Arsenic-Dissolved	µg/L	1	Metals-022	<1	1	2	2	0	102	102
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	1	<0.1	<0.1	0	100	100
Chromium-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	96	89
Copper-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	99	82
Lead-Dissolved	µg/L	1	Metals-022	<1	1	<1	<1	0	101	84
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	101	80
Nickel-Dissolved	µg/L	1	Metals-022	<1	1	3	3	0	102	87
Zinc-Dissolved	µg/L	1	Metals-022	<1	1	11	11	0	96	95

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.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

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 (not SPOCAS); 60-140% for organics/SPOCAS (+/-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.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Douglas Partners
Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET

Project No: 71021.15	**Suburb:** Lidcombe	**To:** Envirolab	
Project Name: Tooheys	**Order Number**	12 Ashley Street, Chatswood	
Project Manager: Kurt Plambeck	**Sampler:**	**Attn:** Aileen Hie	
Emails: kurt.plambeck@douglaspartners.com.au		**Phone:**	
Date Required: Standard ☑		**Email:**	

Prior Storage: ☑ Esky ☐ Fridge ☐ Shelved Do samples contain 'potential' HBM? Yes ☐ No ☐ (If YES, then handle, transport and store in accordance with FPM HAZID)

Sample ID	Lab ID	Date Sampled	Sample Type (S - soil, W - water)	Container Type (G - glass, P - plastic)	Analytes: Heavy Metals	TRH	BTEX	PAH	Total Phenols	Asbestos 500 ml				Notes/preservation
BH1	1	26.11.20	W	G/P	X	X	X							
BH2	2	"	W	G/P	X	X	X							
BH7	3		W	G/P	X	X	X							
BH8	4		W	G/P	X	X	X							
BH9	5		W	G/P	X	X	X							
BH10	6		W	G/P	X	X	X							
BD1	7		W	G/P	X	X	X							
Spike	NR		W	G/P			X							
Blank	~~8~~NR	↓	W	G/P			X							
PQL (S) mg/kg														**ANZECC PQLs req'd for all water analytes** ☐

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 256893
Date Received: 27/11/2020
Time Received: 17:57
Received By: [illegible]
Temp: Cool/Ambient
Cooling: Ice/icepack
Security: Intact/Broken/None

PQL = practical quantitation limit. If none given, default to Laboratory Method Detection Limit

Lab Report/Reference No:

Metals to Analyse: 8HM unless specified here:

Total number of samples in container: 35 **Relinquished by:** [illegible] **Transported to laboratory by:** Border Courier

Send Results to: Douglas Partners Pty Ltd **Address** **Phone:** **Fax:**

Signed: ~~Lisa Teng 13/6/2020 2pm~~ **Received by:** R Chareen **Date & Time:** 27/11/2020 1757

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 RECEIPT ADVICE

Client Details

Client	Douglas Partners Pty Ltd
Attention	Kurt Plambeck

Sample Login Details

Your reference	71021.15, Lidcombe
Envirolab Reference	256893
Date Sample Received	27/11/2020
Date Instructions Received	27/11/2020
Date Results Expected to be Reported	04/12/2020

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	7 WATER
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	19.6
Cooling Method	Ice
Sampling Date Provided	YES

Comments

TS/TB not received

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**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
BH1	✓	✓	✓
BH2	✓	✓	✓
BH7	✓	✓	✓
BH8	✓	✓	✓
BH9	✓	✓	✓
BH10	✓	✓	✓
BD1	✓	✓	✓

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.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.