[redacted]
Environmental Engineer & Director
[redacted]
mob: [redacted]
office: [redacted]
fax: (02) 66-218-123
ABN: 82 106 758 123

Friday 10th March 2023

To: [redacted]
Site Engineer, Lendlease
Tweed Valley Hospital Project

Re: Surface Water Quality Monitoring Results and Report for the Tweed Valley Hospital Project
Reporting period: 17 January 2023 to 14 February 2023

1.0 INTRODUCTION

Ecoteam is engaged to undertake monthly and event-based surface water monitoring on behalf of Lendlease Building as part of the main works for the Tweed Valley Hospital Project. This report presents results from the 44th round of monthly sampling. This report satisfies the requirements of the SSD2 conditions. No controlled or uncontrolled releases from the sediment basins occurred during the reporting period.

2.0 PROJECT AIMS AND SAMPLING OBJECTIVES

The surface water monitoring objectives for the site are to detect changes during construction in receiving water quality resulting from the project. Stormwater discharges potentially contain increased sediment loads, nutrients, total and dissolved metals, hydrocarbons, or other contaminants such as pesticides. Baseline water quality data was performed on 19 and 26 November and 19 December 2018 to record water quality conditions under the existing land use prior to construction (Lendlease Building, 2019).

3.0 WEATHER CONDITIONS

Total rainfall in the period prior to sampling (*17 January 2023 to 14 February 2023*) was 102.8 mm with the highest 24-hour rainfall occurring on 01st February, being 45.4 mm (Kingscliff BOM Station 058137).

4.0 SAMPLING LOCATIONS

Samples were collected from four of the five monthly sampling Sites (001 – 003 and 005). Site 004 has been infilled and has been removed from ongoing sampling rounds. Control samples were also collected and analysed (013 – 015). Sample codes and corresponding sampling locations are shown in **Table 1** and **Figure 1**. Site photos taken on the day of sampling are included in **Appendix A.** During sampling, Site 002 was noted to be flowing North. Therefore, Site 002 will be assessed as a downstream sample site.

Table 1. Monthly sampling sites, control samples, sample codes, and applicable WQOs.

Sample Codes	Sampling Site Name	Short Name	WQOs
001	West Creek (Downstream)	WC	Estuarine
002	North West Creek (Variable)	NWC	Estuarine
003	East Creek (Upstream)	EC	Freshwater
004	Dam (Downstream)	Dam	Freshwater
005	Dam Drain (Downstream)	DD	Freshwater
013	Trip Blank	Trip	NA
014	Field Blank	Field	NA
015	Field Duplicate	Duplicate	NA

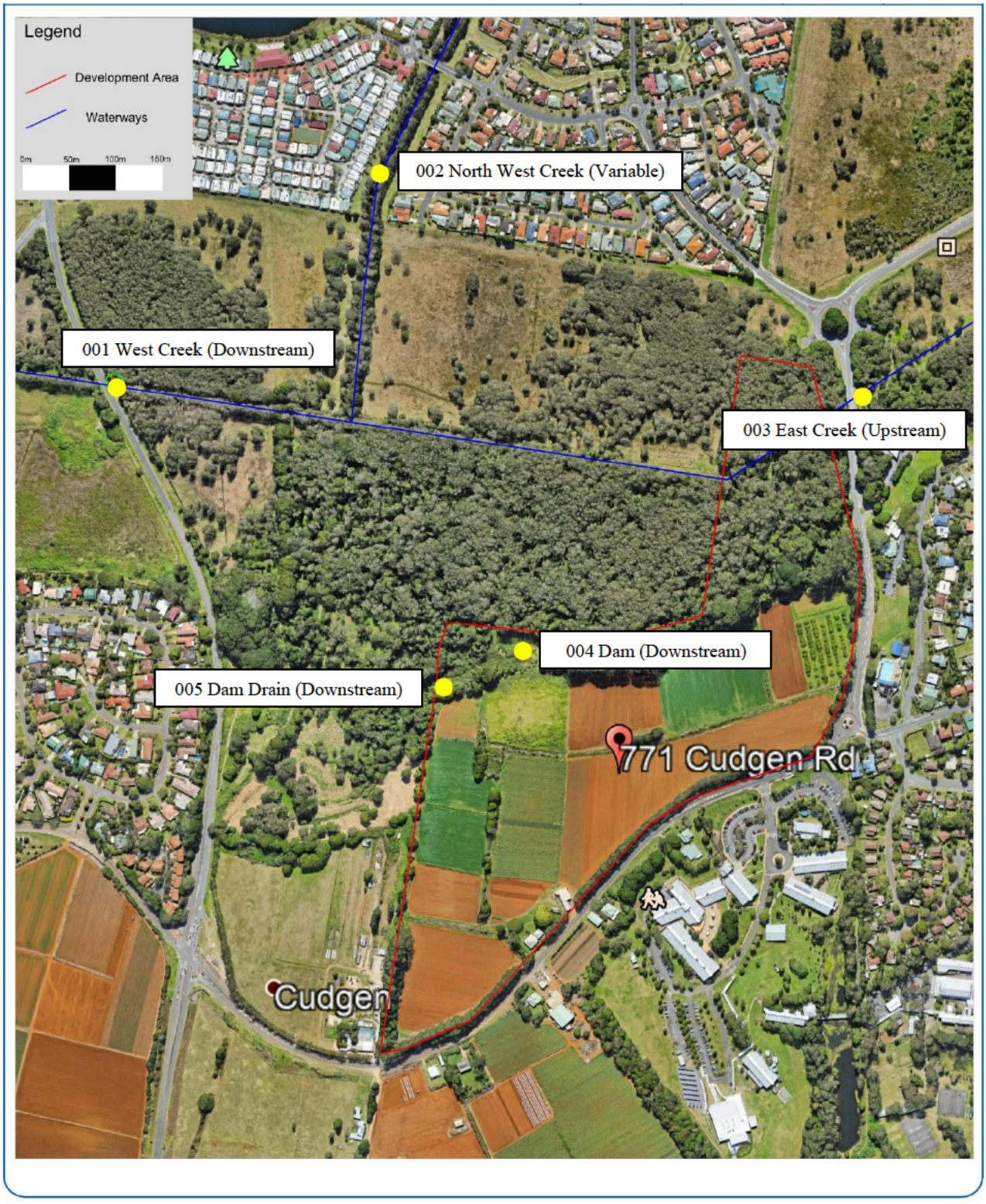

Figure 1. Map of monthly sampling sites (Source: Google Earth).

5.0 SAMPLING METHODOLOGY

Sampling was undertaken by [redacted] on Tuesday 15 February 2023. The weather was overcast. In situ, physico-chemical measurements were collected using a AquaTROLL multi-parameter probe, and Turbidity was measured using a Turbimeter Plus turbidity meter. Oil and grease were visually assessed. The calibration certificate for the AquaTROLL is included in **Appendix B**. The Turbimeter Plus is calibrated before each sampling round. Water quality samples were collected at 300 mm below the surface where possible. Samples were collected from the bank using an extension pole.

Samples were filtered and preserved on-site where necessary, stored on ice, and couriered overnight to the NATA-accredited Envirolab in Sydney. Trip blank samples (013) were sent from Envirolab and transported to all sites, then returned to Envirolab with the field samples. The field blank samples (014) were assessed at Site 003. Duplicate samples (015) were collected at Site 005 and were filtered and preserved as required. Field and trip blanks were filled with deionized water and do not represent water quality from the site. A full list of analytes for the project is included in **Appendix C**.

6.0 ASSESSMENT CRITERIA

Water quality results were compared against the Water Quality Objectives (WQO) in the following guidelines.

- *NSW Water Quality Objectives for the Tweed River Catchment for Aquatic Ecosystems* (Tweed 2006) - Trigger criteria for estuaries.
- *Australian and New Zealand guidelines for fresh and marine water quality (ANZECC 2000)* – Trigger values for freshwater (level of protection 95% species).

7.0 RESULTS

7.1 Physico-chemical Results

In situ, physico-chemical sampling results with comparison to WQOs are shown in **Table 2**. There were no surface sheens visible at any sites, therefore oil and grease were not present.

Table 2. Results of physico-chemical parameters. The results above guidelines are highlighted.

Analyte	Units	Water Quality Objectives (WQOs)		Sample Codes and Results			
		Estuary	Fresh Water	WC 001 (Down)	NWC 002 (Down)	EC 003 (Up)	DD 005 (Down)
pH		7.0-8.5	6.5-8.5	7.13	6.82	6.11	6.08
Turbidity	*NTU*	0.5-10	6.0-50	114	7.5	3.89	7.47
Electrical Conductivity (EC)	*µS/cm*	125-2,200	125-2,200	364.12	250.24	114.94	137.69
Dissolved Oxygen (DO)	*% Saturation*	80-110	85-110	36.08	20.81	8.58	4.09
Temperature	*°C*	N/A	N/A	25.54	26.22	25.68	24.64
Oxidation-Reduction Potential (ORP)	*mV*	N/A	N/A	222.6	93.3	238.6	128.9

When compared to the WQOs for freshwater and estuaries:

- pH was outside the WQO range at sample Sites 002, 003 and 005 this sampling round.
- Turbidity was outside of the WQO ranges at sample Sites 001 and 003 this sampling round.
- EC concentrations outside of the WQO ranges at sample Site 003 this sampling round.
- DO concentrations were outside of the expected range at all sampling sites this sampling round. DO was outside the range at comparison sites in background sampling.

7.2 Laboratory Results

Ammonia, Chlorophyll-a, Filterable Reactive Phosphorous (FRP), Oxides of Nitrogen (NOx), Total Nitrogen, Total Phosphorus, Aluminium, Lead and Zinc were above the WQOs for some sample sites shown in **Table 3**.

The chain of custody form is included in **Appendix D**. A summary of all lab results with comparison to WQOs is included as **Appendix E**. A full copy of the laboratory results is included as **Appendix F**.

Table 3. Parameters in exceedance of the trigger criteria for sampling conducted. Results above guidelines are highlighted.

		Water Quality Objectives (WQOs)								
Analyte	**Unit**	**Estuary**	**Fresh Water**	**WC 001 (Down)**	**NWC 002 (Down)**	**EC 003 (Up)**	**DD 005 (Down)**	**013 Trip**	**014 Field**	**015 Duplicate**
Ammonia	mg/L	0.015	0.02	0.008	0.012	0.18	0.014	<0.005	<0.005	<0.005
Chlorophyll-a	mg/m^3	4	5	2	22	2	<1	<1	<1	20
Filterable Reactive Phosphorus	mg/L	0.005	0.02	<0.005	<0.005	0.069	0.006	<0.005	<0.005	<0.005
Oxides of Nitrogen	mg/L	0.015	0.040	0.09	0.04	0.04	1.7	0.03	<0.005	1.7
Total Nitrogen	mg/L	0.30	0.35	0.3	0.5	0.8	1.9	<0.1	<0.1	1.9
Total Phosphorus	mg/L	0.030	0.025	0.09	0.09	0.29	0.06	<0.02	<0.02	0.06
Aluminium	µg/L	N/A	55	20	20	100	20	<10	<20	20
Lead	µg/L	4.4	3.4	<1	12	<1	1	<1	<1	<1
Zinc	µg/L	15	8.0	2	7	8	4	<1	<1	4

When compared to the WQOs for Freshwater and Estuaries:

- Ammonia was above the WQOs at sample Site 003 this sampling round. Ammonia was above the WQOs at comparison sites in background sampling. Ammonia has increased at sample Site 003 and decreased at all other sites when compared to the previous month.
- Chlorophyll-a was above the WQOs at sample Sites 002 and the duplicate sample taken from Site 005 this sampling round. Chlorophyll-a has remained the same at sample Site 001 and decreased at all other sample Sites when compared to the previous month.
- Filterable Reactive Phosphorus was above WQOs at sample Site 003 this sampling round. Filterable Reactive Phosphorus has increased at sample Sites 003 and 005, remained the same at sample Site 002 and decreased at Site 001 when compared to the previous month.

- NOx was above the WQOs criteria at all sample sites this sampling round. NOx has increased at sample Site 001 and decreased at all other sample sites when compared to the previous month.
- TN was above the WQOs criteria at all sites this sampling round. TN has increased at sample Site 003 and decreased at all other sample sites when compared to last month. TN was above the WQOs at comparison sites in baseline sampling.
- TP was above the WQOs criteria at all sample sites this sampling round. TP has increased at all sample Sites when compared to the previous month.
- Aluminium was above the WQOs criteria at sample Site 003 this sampling round. Aluminium has increased at all sample Sites when compared to the previous month.
- Lead was above the WQOs criteria at sample Site 002 this sampling round. Lead has increased at sample Site 002 and remained the same at all other sample Sites when compared to the previous month.
- Zinc was above the WQOs criteria at sample Site 003 this sampling round. Zinc has increased at sample Sites 002 and 003, remained the sample at Site 001, and decreased at sample Site 005 when compared to the previous month.
- All other metals were within estuarine and freshwater criteria this month.
- Demeton was analysed and returned non-detectable results.
- TRH (C_{10}-C_{40}) was not detected at any sample site.

8.0 Quality Assurance and Quality Control

- Parameters analysed in the Trip Blank (013) and Field Blank (014) were below the laboratory detection limits for all analytes except for silver which was found in the trip and field blank. Silver is used to make demineralised water and the laboratory has confirmed this is due to laboratory procedures and not a result of contamination.
- The Duplicate Sample (015) was collected at Site 005 and is within acceptable limits for all analytes except for Chlorophyll-a which typically has variation.
- The laboratory QA/QC is included in the results in **Appendix F**. All laboratory QA/QC was within acceptance criteria.

9.0 Summary of Results and Recommendations

- The month had moderate rainfall.
- Nutrients (Ammonia, NOx, TN, and TP) and Chlorophyll-a were high and exceeded some water quality parameters for some sites. This includes upstream and downstream sites in past sampling events. Exceedances in nutrients are therefore considered of natural occurrence.
- Aluminium exceeded WQOs at Site 003 during the month. Zinc was above the WQOs criteria at sample Site 003 this sampling round. Lead exceeded WQOs at Site 002 this month but was not present at the direct downstream sample locations indication it was isolated to Site 002. Metals have been present in upstream and downstream sampling sites in previous sampling rounds. Elevation in metals may be due to pH and redox changes, microbial mineralisation, and naturally occurring sediment transportation. Changes in metal concentrations are also likely following heavy rainfall events. Lead present at
- Elevated nutrients and metals have been observed at all sampling locations including upstream and downstream sites in previous months and during baseline sampling. Therefore, based on the assessment of the January/February water quality data, the Tweed Valley Hospital Project construction activities are unlikely to be adversely impacting the downstream water quality. As such, the current soil and erosion controls implemented on site are considered to be effective.

ecoteam
natural solutions for environmental challenges

Kind regards,

[redacted]
Environmental Engineer & Director
[redacted]
mob: [redacted]
office: (02) 66-215-123
fax: (02) 66-218-123
ABN: 82 106 758 123

Appendix A. Site Photos

	**Site 001 – West Creek (Downstream) (15/02/2023))**
	**Site 002 – North-west Creek (Upstream) (15/02/2023))**
	**Site 003 – East Creek (Upstream) (15/02/2023)**
	**Site 005 – Dam Drain (Downstream) (15/02/2023))**

Appendix B. Calibration certificate for Aqua troll

Calibration Report

Instrument	Aqua TROLL 500
Serial Number	757823
Created	21/11/2022

Sensor	**Turbidity**
Serial Number	754060
Last Calibrated	Factory Defaults

Sensor	**RDO**
Serial Number	754373
Last Calibrated	10/07/2022

Calibration Details

Slope	1
Offset	-0.10 mg/L

Pre Measurement

RDO Concentration	8.74 mg/L

Post Measurement

RDO Concentration	8.75 mg/L

Sensor	**pH/ORP**
Serial Number	742301
Last Calibrated	21/11/2022

Calibration Details

Calibration Point 1

pH of Buffer	4.01 pH
pH mV	96.0 mV
Temperature	29.11 °C

Pre Measurement

pH	4.22 pH
pH mV	96.0 mV

Post Measurement

pH	4.01 pH
pH mV	97.4 mV

Calibration Point 2

pH of Buffer	6.99 pH
pH mV	-71.3 mV
Temperature	30.21 °C

Pre Measurement

pH	7.11 pH
pH mV	-71.6 mV

Post Measurement

pH	6.99 pH
pH mV	-72.6 mV

Slope and Offset 1

Slope	-56.17 mV/pH
Offset	-71.9 mV

ORP

ORP Solution	Zobell's
Offset	55.0 mV
Temperature	30.27 °C
Pre Measurement	167.7 mV
Post Measurement	222.2 mV

Sensor	**Conductivity**
Serial Number	756927
Last Calibrated	10/07/2022

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.873
Reference Temperature	20.00 °C

Appendix C. Full List of Sampling Analytes

3.7 Proposed Surface Water Quality Sampling Parameters

A summary of the proposed sampling analytes is provided below:

Field

- pH
- Turbidity
- Electrical Conductivity (EC)
- Dissolved Oxygen (DO)
- Temperature
- Oxidation Reduction Potential (ORP)
- Oil and grease

Laboratory

- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Major Cations & Hardness
- Ammonia
- Chlorophyll-a
- Filterable Reactive Phosphorus
- Nitrate
- Oxides of Nitrogen
- Total Nitrogen
- Total Phosphorus
- Aluminium (pH > 6.5) filtered
- Arsenic (filtered)
- Boron (filtered)
- Cadmium (filtered)
- Chromium (filtered)
- Copper (filtered)
- Cobalt (filtered)
- Lead (filtered)
- Manganese (filtered)
- Mercury (filtered)
- Nickel (filtered)
- Selenium (filtered)
- Silver (filtered)
- Zinc (filtered)
- Benzene
- Toluene
- Ethylbenzene
- Xylene - Total
- Naphthalene
- Total Recoverable Hydrocarbons (TRH)
- Organochlorine Pesticides (OCP)
  - 4.4'-DDE
  - 4.4'-DDT
  - Aldrin
  - g-BHC (Lindane)
  - Chlordane
  - Dieldrin
  - Endosulfan
  - Endrin
  - Heptachlor
  - Toxaphene
- Organophosphorus Pesticides (OPP)
  - Azinphos-methyl
  - Chlorpyrifos
  - Demeton-S
  - Diazinon
  - Dimethoate
  - Fenitrothion
  - Malathion

If a sample returns detectable concentrations of the analytes presented in Table 1, additional analyses may be required to enable comparison against additional trigger criteria or trace potential sources of contaminants. It is cost prohibitive to analyse these parameters unless required.

Table 1 Additional Analysis Requirements

Analyte	Additional Analysis
Total Recoverable Hydrocarbons	TRH Silica-gel Clean-up
Arsenic (filtered)	Arsenic (III) (filtered) Arsenic (V) (filtered)
Chromium (filtered)	Chromium (CrVI) (filtered)

Appendix D. Chain of Custody Form

[Copyright and Confidential]

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP - National phone number 1300 424 344

Sydney Lab - Envirolab Services
12 Ashley St, Chatswood, NSW 2067
Ph: 02 9910 6200 / sydney@envirolab.com.au

Perth Lab - MPL Laboratories
16-18 Hayden Crt, Myaree, WA 6154
Ph: 08 9317 2505 / lab@mpl.com.au

Melbourne Lab - Envirolab Services
25 Research Drive, Croydon South, VIC 3136
Ph: 03 9763 2500 / melbourne@envirolab.com.au

Adelaide Office - Envirolab Services
7a The Parade, Norwood, SA 5067
Ph: 08 7087 6800 / adelaide@envirolab.com.au

Brisbane Office - Envirolab Services
20a, 10-20 Depot St, Banyo, QLD 4014
Ph: 07 3266 9532 / brisbane@envirolab.com.au

Darwin Office - Envirolab Services
Unit 7, 17 Willes Rd, Berrimah, NT 0820
Ph: 08 8967 1201 / darwin@envirolab.com.au

Client: Ecoteam
Contact Person: [redacted]
Project Mgr: [redacted]
Sampler: [redacted]
Address: 13 Ewing Street
Lismore NSW 2480
Phone: 02 6621 5123 Mob: [redacted]
Email: [redacted]

Testing requirements - Chlorophyll-a <4 mg/m3, Total Phosphorus <0.025 mg/L, Silver <0.05 ug/L, Low level OCPs and OPPs

Client Project Name / Number / Site etc (ie report title):
SMC009.44 - Tweed Valley Hospital Project
PO No.:
Envirolab Quote No.: 19SY228_Rev 1
Date results required:
Or choose: standard / same day / 1 day / 2 day / 3 day
Note: Inform lab in advance if urgent turnaround is required - surcharges apply
Additional report format: esdat / equis /
Lab Comments:
Metals: :Al, As, B, Cd, Cr, Cu, Co, Pb, Mn, Hg, Ni, Se, Ag, Z.
Cations: Na/K/Ca/Mg. Please hold Cr6 and AsIII/V until initial dissolved metals results are back.

Sample information					Tests Required															Comments
Envirolab Sample ID	Client Sample ID or information	Depth	Date sampled	Type of sample	TRH/BTEXN	Dissolved Metals	OC/OP + toxaphene + demeton	TSS	TDS	Cations + Hardness	Ammonia	Chlorphyll-a	Phosphate (FRP)	Nitrate	Nox	Total N	Total P	Cr6+- HOLD	AsIII & V - HOLD	Provide as much information about the sample as you can
1	001 - USW	300 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
2	002 - USNW	150 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
3	003 - DSE	300 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
4	005 - Dam Drain	150 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
5	013	300 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
6	014	300 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			
7	015	300 mm	15-Feb	Water	X	X	X	X	X	X	X	X	X	X	X	X	X			

☐ *Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis*

Relinquished by (Company):	Ecoteam	Received by (Company):	ECS SYD.	*Lab Use Only*	
Print Name:	[redacted]	Print Name:	[redacted]	Job number: 316673.	Cooling: Ice / Ice pack / None
Date & Time:	15/02/2023	Date & Time:	16/02/23 @ 1340	Temperature: 16.7 °C.	Security seal: Intact / Broken / None
Signature:	[redacted]	Signature:		TAT Req - SAME day / 1 / 2 / 3 / 4 / STD	

Form 302_V004 Issue date: 21 May 2019 Page 1 of 1

Appendix E. Summary of Lab Results compared to WQOs

Analyte	Unit	Water Quality Objectives (WQOs)		Sample Codes							
		Estuary	Fresh Water	WC001	NWC002	EC003	DD005		013 Trip	014 Field	015 Duplicate
Total Suspended Solids (TSS)	mg/L	N/A	N/A	36	8	<5	9		<5	<5	14
Total Dissolved Solids (TDS)	mg/L	N/A	N/A	300	190	99	120		<5	<5	110
Major Cations (dissolved) and Hardness											
Sodium	mg/L	N/A	N/A	32	31	19	23		<0.5	<0.5	22
Potassium	mg/L	N/A	N/A	3	3	2	3		<0.5	<0.5	3
Calcium	mg/L	N/A	N/A	39	19	5.7	3		<0.5	<0.5	3
Magnesium	mg/L	N/A	N/A	7.4	5.9	2	4		<0.5	<0.5	4
Hardness mg$CaCO_3$/L		N/A	N/A	130	71	24	25		<3	<3	25
Nutrients											
Ammonia	mg/L	0.015	0.02	0.008	0.012	0.18	0.014		<0.005	<0.005	<0.005
Chlorophyll-a	mg/m³	4	5	2	22	2	<1		<1	<1	20
Filterable Reactive Phosphorus	mg/L	0.005	0.02	<0.005	<0.005	0.069	0.006		<0.005	<0.005	<0.005
Nitrate	mg/L	N/A	N/A	0.086	0.04	0.04	1.7		0.03	<0.005	1.7
Oxides of Nitrogen	mg/L	0.015	0.040	0.09	0.04	0.04	1.7		0.03	<0.005	1.7
Total Nitrogen	mg/L	0.30	0.35	0.3	0.5	0.8	1.9		<0.1	<0.1	1.9
Total Phosphorus	mg/L	0.030	0.025	0.09	0.09	0.29	0.06		<0.02	<0.02	0.06
Metals – All metals are Dissolved Metals											
Aluminium	µg/L	N/A	55	20	20	100	20		<10	<10	20
Arsenic	µg/L	N/A	13	<1	<1	<1	<1		<1	<1	<1
Boron	µg/L	N/A	370	50	70	20	40		<20	<20	40
Cadmium	µg/L	5.5	0.2	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	<0.1
Chromium	µg/L	4.4	1.0	<1	<1	<1	<1		<1	<1	<1
Copper	µg/L	1.3	1.4	<1	<1	<1	<1		<1	<1	<1
Cobalt	µg/L	1.0	N/A	<1	<1	<1	<1		<1	<1	<1
Lead	µg/L	4.4	3.4	<1	12	<1	1		<1	<1	<1
Manganese	µg/L	N/A	1,900	60	110	41	46		<1	<1	42
Mercury	µg/L	0.4	0.6	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05
Nickel	µg/L	70	11	<1	<1	<1	<1		<1	<1	<1
Selenium	µg/L	N/A	11	<1	<1	<1	<1		<1	<1	<1
Zinc	µg/L	15	8.0	2	7	8	4		<1	<1	4
Silver	µg/L	1.4	0.05	<0.05	<0.05	<0.05	<0.05		0.58	0.56	<0.05

Analyte	Unit	Water Quality Objectives (WQOs)		Sample Codes							
		Estuary	Fresh Water	WC001	NWC002	EC003	DD005		013 Trip	014 Field	015 Duplicate
Hydrocarbons											
Toluene	mg/L	0.70	0.95	<1	<1	<1	<1		<1	<1	<1
Ethylbenzene	mg/L	N/A	N/A	<1	<1	<1	<1		<1	<1	<1
Xylene	mg/L	N/A	N/A	<1	<1	<1	<1		<1	<1	<1
Naphthalene	mg/L	N/A	0.55	<1	<1	<1	<1		<1	<1	<1
TRH C_6 - C_{10}	mg/L	0.07	0.016	<10	<10	<10	<10		<10	<10	<10
TRH C_{10} - C_{16}	mg/L	N/A	N/A	<50	<50	<50	<50		<50	<50	<50
TRH C_{16} - C_{34}	mg/L	N/A	N/A	<100	<100	<100	<100		<100	<100	<100
TRH >C_{34} - C_{40}	mg/L	N/A	N/A	<100	<100	<100	<100		<100	<100	<100
TRH C_6-C_{10} less BTEX (F1)	mg/L	N/A	N/A	<10	<10	<10	<10		<10	<10	<10
TRH >C_{10}-C_{16} less Naphthalene (F2)	mg/L	N/A	N/A	<50	<50	<50	<50		<50	<50	<50
Organochlorine Pesticides (OCP)											
4.4'-DDE	µg/L	N/A	N/A	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
4.4'-DDT	µg/L	N/A	0.01	<0.006	<0.006	<0.006	<0.006		<0.006	<0.006	<0.006
Aldrin	µg/L	N/A	N/A	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
g-BHC	µg/L	N/A	0.2	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Chlordane	µg/L	N/A	0.08	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Dieldrin	µg/L	N/A	N/A	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Endosulfan	µg/L	0.01	0.2	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Endrin	µg/L	0.02	0.008	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Heptachlor	µg/L	N/A	0.09	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Toxaphene	µg/L	N/A	0.2	<2	<2	<2	<2		<2	<2	<2
Organophosphorus Pesticides (OPP)											
Azinphos-methyl	µg/L	N/A	0.02	<0.02	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02
Chlorpyriphos	µg/L	0.009	0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Demeton-S	µg/L	N/A	N/A	<5	<5	<5	<5		<5	<5	<5
Diazinon	µg/L	N/A	0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
Dimethoate	µg/L	N/A	0.15	<0.15	<0.15	<0.15	<0.15		<0.15	<0.15	<0.15
Fenitrothion	µg/L	N/A	0.2	<0.2	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2
Malathion	µg/L	N/A	0.05	<0.05	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05

Appendix F. Full Laboratory Results