



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

CERTIFICATE OF ANALYSIS

Batch No: 24-62167
Final Report 221593

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Client: Environmental and Analytical Laboratories

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Address*

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Contact:

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Client Manager
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PO No: PU151786

Date Sampled: 02-Oct-2024 - 04-Oct-2024

Sampler Name:

Date Samples Received: 10-Oct-2024

ALS Program Ref: EAL

Date Issued: 15-Oct-2024

Program Description: Analysis for EAL

Client Ref: Analysis

The hash (#) below indicates methods not covered by NATA accreditation in the performance of this service.

Analysis	Method	Laboratory	Analysis	Method	Laboratory
BTEXN	WP074	Scoresby	CHC	WP084	Scoresby
HVOL	WP074	Scoresby	PAH	WP075B	Scoresby
SO4 DA	WD041G	Scoresby	TOC (SFA)	WP005SF 002SF	Scoresby
TRH F2	# WP071	Scoresby	TRH & TPH (>C10)	WP071	Scoresby
TRH (C6-C10) & F1	WP074 (F1 not NATA)	Scoresby			

TOC is analysed as NPOC and VOCs if present may be compromised when removing inorganic carbon .

Signatories

Name	Title	Name	Title
Amanda Harcourt	Technical Assistant	Asiri Nissanka	Laboratory Technician
Chatura Perera	Team Leader Nutrients	Hong Chen	Chemist/Analyst
Hatifa Lalzad	Analyst	Kosta Christopoulos	Team Leader Organics

Samples not collected by ALS and are tested as received.

Calculated results are based on raw data.

Samples are tested within holding time unless otherwise stated.

Results contained within this report relate only to the samples tested.

The report shall not be reproduced, except in full.

Batch No: 24-62167
 Report Number: 221593
 Client: Environmental and Analytical Laboratories
 ALS Program Ref: EAL
 Program Description: Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10371326	NONE	24Oct-0037	WATER	02/10/24
10371327	NONE	24Oct-0047	WATER	03/10/24
10371328	NONE	24Oct-0050	WATER	04/10/24

Analysis - Analyte	Sample No.	10371326	10371327	10371328
	Site Code	NONE	NONE	NONE
	Units			
SO4 DA - Sulphate, as SO4	mg/L	120	420	530

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Client:

Environmental and Analytical Laboratories

ALS Program Ref:

EAL

Program Description:

Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10371329	NONE	24Oct-0051	WATER	02/10/24
10371330	NONE	24Oct-0052	WATER	02/10/24
10371331	NONE	24Oct-0053	WATER	02/10/24

Analysis - Analyte	Sample No.	10371329	10371330	10371331
	Site Code Units	NONE	NONE	NONE
TOC (SFA) - Total Organic Carbon	mg/L	12		
SO4 DA - Sulphate, as SO4	mg/L	35		
BTEXN - Benzene	mg/L		<0.001	<0.001
BTEXN - Toluene	mg/L		<0.001	<0.001
BTEXN - Ethyl Benzene	mg/L		<0.001	<0.001
BTEXN - Xylene - m & p	mg/L		<0.002	<0.002
BTEXN - Xylene - o	mg/L		<0.001	<0.001
BTEXN - Total Xylenes	mg/L		<0.002	<0.002
BTEXN - BTEX (Sum)	mg/L		<0.002	<0.002
TRH (C6-C10) & F1 - TPH C6-C9	mg/L		<0.1	<0.1
TRH (C6-C10) & F1 - TRH C6-C10	mg/L		<0.1	<0.1
TRH (C6-C10) & F1 - TRH C6-C10 minus BTEX	mg/L		<0.1	<0.1
TRH F2 - TRH>C10-C16 minus Naphthalene	mg/L		<0.1	<0.1
TRH & TPH (>C10) - TPH C10-C14	mg/L		<1	<1
TRH & TPH (>C10) - TPH C15-C28	mg/L		<1	1.2
TRH & TPH (>C10) - TPH C29-C36	mg/L		1.4	<1
TRH & TPH (>C10) - Sum of TPH C10-C36	mg/L		1.4	1.2
TRH & TPH (>C10) - TRH>C10-C16	mg/L		<1	<1
TRH & TPH (>C10) - TRH>C16-C34	mg/L		1.4	1.5
TRH & TPH (>C10) - TRH>C34-C40	mg/L		<1	<1
TRH & TPH (>C10) - Sum of TRH>C10-C40	mg/L		1.4	1.5
PAH - Naphthalene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Acenaphthylene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Acenaphthene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Fluorene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Phenanthrene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Anthracene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Fluoranthene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Pyrene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Benz(a)anthracene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Chrysene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Benzo(b)fluoranthene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Benzo(k)fluoroanthene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Benzo(a)pyrene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Dibenz(a,h)anthracene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Benzo(g,h,i)perylene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Indeno(1,2,3-cd)pyrene	mg/L		<0.004 LORR	<0.004 LORR
PAH - Total PAH	mg/L		<0.004 LORR	<0.004 LORR
PAH - p-Terphenyl-d14-SURR	%		90.8	91.7
CHC - 1,2,3,4-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,3-Trichlorobenzene	mg/L	<0.001		
CHC - 1,2,4,5-Tetrachlorobenzene	mg/L	<0.001		
CHC - 1,2,4-Trichlorobenzene	mg/L	<0.001		
CHC - 1,2-Dichlorobenzene	mg/L	<0.001		
CHC - 1,3,5-Trichlorobenzene	mg/L	<0.001		
CHC - 1,3-Dichlorobenzene	mg/L	<0.001		
CHC - 1,4-Dichlorobenzene	mg/L	<0.001		
CHC - 2-Chloronaphthalene	mg/L	<0.001		

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Environmental and Analytical Laboratories

ALS Program Ref:

EAL

Program Description:

Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10371329	NONE	24Oct-0051	WATER	02/10/24
10371330	NONE	24Oct-0052	WATER	02/10/24
10371331	NONE	24Oct-0053	WATER	02/10/24

		10371329 NONE	10371330 NONE	10371331 NONE
CHC - Benzal Chloride	mg/L	<0.001		
CHC - Benzotrchloride	mg/L	<0.001		
CHC - Benzylchloride	mg/L	<0.001		
CHC - Hexachloroethane	mg/L	<0.001		
CHC - Hexachlorobutadiene	mg/L	<0.001		
CHC - Hexachlorocyclopentadiene	mg/L	<0.001		
CHC - Pentachlorobenzene	mg/L	<0.001		
HVOL - 1,1,1,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1,2,2-Tetrachloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethane	mg/L	<0.001		
HVOL - 1,1-Dichloroethene	mg/L	<0.001		
HVOL - 1,1-Dichloropropene	mg/L	<0.001		
HVOL - 1,2,3-Trichloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromo-3-chloropropane	mg/L	<0.001		
HVOL - 1,2-Dibromoethane	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [cis]	mg/L	<0.001		
HVOL - 1,2-Dichloroethene [trans]	mg/L	<0.001		
HVOL - 1,2-Dichloroethane	mg/L	<0.001		
HVOL - 1,2-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropane	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [cis]	mg/L	<0.001		
HVOL - 1,3-Dichloropropene [trans]	mg/L	<0.001		
HVOL - 2,2-Dichloropropane	mg/L	<0.001		
HVOL - 2-Chlorotoluene	mg/L	<0.001		
HVOL - 4-Chlorotoluene	mg/L	<0.001		
HVOL - Bromochloromethane	mg/L	<0.001		
HVOL - Bromodichloromethane	mg/L	<0.001		
HVOL - Bromobenzene	mg/L	<0.001		
HVOL - Bromoform (Tribromomethane)	mg/L	<0.001		
HVOL - Carbon Tetrachloride	mg/L	<0.001		
HVOL - Chloroform (Trichloromethane)	mg/L	<0.001		
HVOL - Chlorobenzene	mg/L	<0.001		
HVOL - Dibromochloromethane	mg/L	<0.001		
HVOL - Dibromomethane	mg/L	<0.001		
HVOL - Dichloromethane	mg/L	<0.002		
HVOL - Trichlorofluoromethane (CFC11)	mg/L	<0.002		
HVOL - Tetrachloroethene	mg/L	<0.001		
HVOL - Vinyl Chloride (Monomer)	mg/L	<0.002		
HVOL - 1,1,1-Trichloroethane	mg/L	<0.001		
HVOL - 1,1,2-Trichloroethane	mg/L	<0.001		
HVOL - Trichloroethene	mg/L	<0.001		

LORR

Limit of Reporting has been raised due to high moisture content, insufficient sample or matrix interference.

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Environmental and Analytical Laboratories

ALS Program Ref:

EAL

Program Description:

Analysis for EAL



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
10371332	NONE	24Oct-0054	WATER	02/10/24
10371333	NONE	24Oct-0055	WATER	04/10/24

Analysis - Analyte	Sample No. Site Code Units	10371332 NONE	10371333 NONE
	TOC (SFA) - Total Organic Carbon	mg/L	21
SO4 DA - Sulphate, as SO4	mg/L	36	30
CHC - 1,2,3,4-Tetrachlorobenzene	mg/L	<0.001	
CHC - 1,2,3,5-Tetrachlorobenzene	mg/L	<0.001	
CHC - 1,2,3-Trichlorobenzene	mg/L	<0.001	
CHC - 1,2,4,5-Tetrachlorobenzene	mg/L	<0.001	
CHC - 1,2,4-Trichlorobenzene	mg/L	<0.001	
CHC - 1,2-Dichlorobenzene	mg/L	<0.001	
CHC - 1,3,5-Trichlorobenzene	mg/L	<0.001	
CHC - 1,3-Dichlorobenzene	mg/L	<0.001	
CHC - 1,4-Dichlorobenzene	mg/L	<0.001	
CHC - 2-Chloronaphthalene	mg/L	<0.001	
CHC - Benzal Chloride	mg/L	<0.001	
CHC - Benzotrichloride	mg/L	<0.001	
CHC - Benzylchloride	mg/L	<0.001	
CHC - Hexachloroethane	mg/L	<0.001	
CHC - Hexachlorobutadiene	mg/L	<0.001	
CHC - Hexachlorocyclopentadiene	mg/L	<0.001	
CHC - Pentachlorobenzene	mg/L	<0.001	
HVOL - 1,1,1,2-Tetrachloroethane	mg/L	<0.001	
HVOL - 1,1,2,2-Tetrachloroethane	mg/L	<0.001	
HVOL - 1,1-Dichloroethane	mg/L	<0.001	
HVOL - 1,1-Dichloroethene	mg/L	<0.001	
HVOL - 1,1-Dichloropropene	mg/L	<0.001	
HVOL - 1,2,3-Trichloropropane	mg/L	<0.001	
HVOL - 1,2-Dibromo-3-chloropropane	mg/L	<0.001	
HVOL - 1,2-Dibromoethane	mg/L	<0.001	
HVOL - 1,2-Dichloroethene [cis]	mg/L	<0.001	
HVOL - 1,2-Dichloroethene [trans]	mg/L	<0.001	
HVOL - 1,2-Dichloroethane	mg/L	<0.001	
HVOL - 1,2-Dichloropropane	mg/L	<0.001	
HVOL - 1,3-Dichloropropane	mg/L	<0.001	
HVOL - 1,3-Dichloropropene [cis]	mg/L	<0.001	
HVOL - 1,3-Dichloropropene [trans]	mg/L	<0.001	
HVOL - 2,2-Dichloropropane	mg/L	<0.001	
HVOL - 2-Chlorotoluene	mg/L	<0.001	
HVOL - 4-Chlorotoluene	mg/L	<0.001	
HVOL - Bromochloromethane	mg/L	<0.001	
HVOL - Bromodichloromethane	mg/L	<0.001	
HVOL - Bromobenzene	mg/L	<0.001	
HVOL - Bromoform (Tribromomethane)	mg/L	<0.001	
HVOL - Carbon Tetrachloride	mg/L	<0.001	
HVOL - Chloroform (Trichloromethane)	mg/L	<0.001	
HVOL - Chlorobenzene	mg/L	<0.001	
HVOL - Dibromochloromethane	mg/L	<0.001	
HVOL - Dibromomethane	mg/L	<0.001	
HVOL - Dichloromethane	mg/L	<0.002	
HVOL - Trichlorofluoromethane (CFC11)	mg/L	<0.002	
HVOL - Tetrachloroethene	mg/L	<0.001	
HVOL - Vinyl Chloride (Monomer)	mg/L	<0.002	

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10371332	NONE	24Oct-0054	WATER	02/10/24
10371333	NONE	24Oct-0055	WATER	04/10/24

		10371332 NONE	10371333 NONE
HVOL - 1,1,1-Trichloroethane	mg/L	<0.001	
HVOL - 1,1,2-Trichlorethane	mg/L	<0.001	
HVOL - Trichloroethene	mg/L	<0.001	

A blank space indicates no test performed.