



# IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1747960</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>06/27/24</b>	
<b>DATE SAMPLED:</b>	<b>05/20/24</b>	<b>DATE RECEIVED: 05/22/24</b>
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM MLIRD</b>		

## CASE NARRATIVE

Twenty three water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

## SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
TS-4a	0.011		0.064				
TS-4d	0.011						
TS-5a	0.011		0.071			3.5	2.1
TS-5b	0.010						
TS-5d	0.009						
TS-6a	0.015	0.002	0.048	111		2.1	1.6
TS-6b	0.010						
TS-6c	0.010						
TS-6d	0.013	<0.001					
TS-8a	0.058		0.007			23	6.6
TS-8d	0.050						
TS-11a	0.026	<0.001	0.108	134		7.2	3.6
TS-11b	0.022						
TS-11c	0.025						
TS-11d	0.024						
TS-12a	0.034		0.313			19	6.7
TS-12d	0.047						
TS-15a	0.024		0.080			9.1	3.4
TS-15b	0.023						
TS-15c	0.022						
TS-15d	0.021						
TS-16	0.133	0.118		175	16.3		
TS-14	0.031	<0.001	0.116	131	12.8		

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.285
TS-11a		0.449
TS-14	301	0.558
TS-16	361	1.24



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<b>CASE FILE NUMBER:</b>	<b>1747960</b>	<b>PAGE 2</b>
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### QA/QC DATA

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	SM1810200H	SM1810200H
DATE ANALYZED	05/28/24	05/22/24	05/22/24	06/04/24	05/25/24	06/13/24	06/13/24
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-11a	BATCH	TS-14	TS-14	BATCH	TS-12a	TS-12a
ORIGINAL	0.026	0.031	0.116	131	16.4	19	6.7
DUPLICATE	0.026	0.031	0.108	132	15.9	19	8.2
RPD	1.26%	1.38%	6.98%	0.61%	3.34%	0.00%	19.72%
SPIKE SAMPLE							
SAMPLE ID	TS-11a	BATCH	TS-14		BATCH		
ORIGINAL	0.026	0.031	0.116		16.4		
SPIKED SAMPLE	0.073	0.053	0.349		27.2		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	95.36%	110.12%	116.58%	NA	107.92%	NA	NA
QC CHECK							
FOUND	0.094	0.039	0.419	99.5	9.82		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.00%	100.00%	102.71%	99.50%	98.20%	NA	NA
BLANK							
	<0.002	<0.010	<0.010	NA	<0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.  
 NA = NOT APPLICABLE OR NOT AVAILABLE.  
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.  
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski  
 Project Manager