



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1734240	PAGE 1
REPORT DATE:	09/06/22	
DATE SAMPLED:	08/09/22	DATE RECEIVED: 08/10/22
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine 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-1	0.011	<0.001	0.015				
TS-2	0.040	0.009	1.65				
TS-3	0.394		1.30				
TS-4a	0.024		0.039				
TS-4d	0.024						
TS-5a	0.026		0.011			3.7	4.7
TS-5b	0.024						
TS-5d	0.024						
TS-6a	0.016	<0.001	<0.010	124		1.9	1.3
TS-6b	0.010						
TS-6c	0.022						
TS-6d	0.017	0.001					
TS-7a	0.012		<0.010			2.1	1.2
TS-7b	0.013						
TS-7d	0.011						
TS-8a	0.030		<0.010			5.9	2.7
TS-8d	0.027						
TS-9	0.484	<0.001	15.3	404	69.0		
TS-11a	0.020	0.002	<0.010	123		4.3	3.2
TS-11b	0.019						
TS-11c	0.023						
TS-11d	0.024						
TS-12a	0.021		<0.010			3.0	2.4
TS-12d	0.018						
TS-14	0.108	0.087	1.35	162	13.5		
TS-15a	0.018		<0.010			3.3	2.3
TS-15b	0.022						
TS-15c	0.026						
TS-15d	0.025						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	148	
TS-2		1.86
TS-6a		0.286
TS-9	1035	
TS-11a		0.449
TS-14	359	1.62



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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	08/15/22	08/12/22	08/11/22	08/10/22	08/16/22	08/29/22	08/29/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-15d	BATCH	TS-15a	BATCH	BATCH	TS-15a	TS-15a
ORIGINAL	0.025	<0.001	<0.010	21.8	5.75	3.3	2.3
DUPLICATE	0.029	<0.001	<0.010	21.7	5.72	3.0	2.4
RPD	14.18%	NC	NC	0.46%	0.55%	10.53%	4.32%
SPIKE SAMPLE							
SAMPLE ID	TS-15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.025	<0.001	<0.010		5.75		
SPIKED SAMPLE	0.079	0.020	0.209		17.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	108.78%	100.85%	104.68%	NA	117.22%	NA	NA
QC CHECK							
FOUND	0.092	0.040	0.420	101	10.9		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	97.87%	102.56%	102.83%	101.00%	109.31%	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

Damien Gadomski
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