



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1741884	PAGE 1
REPORT DATE:	08/25/23	
DATE SAMPLED:	08/02/23	DATE RECEIVED: 08/03/23
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	0.004	<0.001	<0.010				
TS-2	0.041	0.007	1.94				
TS-3	0.102		4.17				
TS-4a	0.024		0.053				
TS-4d	0.039						
TS-5a	0.023		<0.010			13	3.5
TS-5b	0.025						
TS-5d	0.025						
TS-6a	0.016	0.001	<0.010	112		6.4	1.6
TS-6b	0.012						
TS-6c	0.013						
TS-6d	0.025	0.001					
TS-7a	0.016		0.013			5.1	2.2
TS-7b	0.023						
TS-7d	0.020						
TS-8a	0.033		0.035			9.1	4.9
TS-8d	0.035						
TS-9	0.059	0.042	17.1	409	66.6		
TS-11a	0.034	0.002	0.019	103		9.3	2.1
TS-11b	0.037						
TS-11c	0.040						
TS-11d	0.058						
TS-12a	0.037		0.010			17	4.2
TS-12d	0.049						
TS-14	0.143	0.089	1.59	158	18.4		
TS-15a	0.031		<0.010			18	2.2
TS-15b	0.032						
TS-15c	0.031						
TS-15d	0.332						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	143	
TS-2		2.35
TS-6a		0.552
TS-9	1075	
TS-11a		0.802
TS-14	356	1.86



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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	08/14/23	08/04/23	08/04/23	08/15/23	08/17/23	08/08/23	08/08/23
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-8d	TS-11a	TS-15a	BATCH	BATCH	TS-15a	TS-15a
ORIGINAL	0.035	0.002	<0.010	97.0	2.20	18	2.2
DUPLICATE	0.036	0.002	<0.010	99.3	2.28	18	2.4
RPD	2.80%	5.41%	NC	2.29%	3.72%	0.00%	8.70%
SPIKE SAMPLE							
SAMPLE ID	TS-8d	TS-11a	TS-15a		BATCH		
ORIGINAL	0.035	0.002	<0.010		2.20		
SPIKED SAMPLE	0.089	0.022	0.218		13.6		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	106.89%	101.00%	109.00%	NA	114.24%	NA	NA
QC CHECK							
FOUND	0.097	0.037	0.417	99.0	10.9		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	103.19%	94.87%	102.21%	99.00%	108.96%	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