



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1725216	PAGE 1
REPORT DATE:	08/10/21	
DATE SAMPLED:	07/14/21	DATE RECEIVED: 07/15/21
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty seven 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)
TS-1	0.009	<0.001	0.012		
TS-2	0.042	0.005	1.18		
TS-5a	0.017		0.018		
TS-5b	0.014				
TS-5d	0.015				
TS-6a	0.012		<0.010		
TS-6b	0.016				
TS-6c	0.014				
TS-6d	0.017				
TS-7a	0.012		0.013		
TS-7b	0.011				
TS-7d	0.011				
TS-11a	0.021		<0.010		
TS-11b	0.021				
TS-11c	0.029				
TS-11d	0.032				
TS-15a	0.017		<0.010		
TS-15b	0.018				
TS-15c	0.034				
TS-15d	0.026				
TS-12	0.031		0.013		
TS-13	0.027	0.006	2.48	242	20.7
TS-14	0.137	0.085	1.18	160	16.3
TS-9	1.05	0.318	13.3	406	52.7
TS-8	0.043		0.027		
TS-3	0.017		0.291		
TS-4	0.018		0.034		

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.336
TS-13	584	
TS-14	352	
TS-9	953	



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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)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7
DATE ANALYZED	07/26/21	07/16/21	07/15/21	07/24/21	07/16/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500
DUPLICATE					
SAMPLE ID	TS-4	BATCH	TS-4	BATCH	BATCH
ORIGINAL	0.018	<0.001	0.034	64.4	<0.500
DUPLICATE	0.019	<0.001	0.032	64.0	<0.500
RPD	3.72%	NC	5.69%	0.62%	NC
SPIKE SAMPLE					
SAMPLE ID	TS-4	BATCH	TS-4		BATCH
ORIGINAL	0.018	<0.001	0.034		<0.500
SPIKED SAMPLE	0.066	0.020	0.242		9.07
SPIKE ADDED	0.050	0.020	0.200		10.0
% RECOVERY	95.41%	100.00%	104.25%	NA	90.70%
QC CHECK					
FOUND	0.097	0.039	0.404	102	9.80
TRUE	0.094	0.039	0.408	100	10.0
% RECOVERY	103.19%	100.00%	98.95%	102.00%	98.00%
BLANK					
	<0.002	<0.010	<0.010	NA	<0.500

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