



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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

CASE FILE NUMBER:	MIS057-32	PAGE 1
REPORT DATE:	04/20/20	
DATE SAMPLED:	03/10/20	DATE RECEIVED: 03/13/20
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Four 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)	CONDUCTIVITY (umhos/cm)
TS-2	0.055	0.004	0.190	230	23.0	519
TS-9B	0.069	0.055	12.6	329	60.0	917
TS-13	0.044	0.009	4.06	242	21.3	578
TS-14 (RFC & HW17)	0.166	0.106	1.44	147	18.5	365



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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)	CONDUCTIVITY (umhos/cm)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	EPA 120.1
DATE ANALYZED	03/23/20	03/13/20	03/13/20	03/16/20	04/21/20	03/20/20
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1
DUPLICATE						
SAMPLE ID	BATCH	BATCH	BATCH	TS-14 (RFC & HW17)	BATCH	BATCH
ORIGINAL	0.041	<0.001	<0.010	147	92.3	1520
DUPLICATE	0.041	<0.001	<0.010	152	93.2	1520
RPD	0.90%	NC	NC	3.34%	0.99%	0.00%
SPIKE SAMPLE						
SAMPLE ID	BATCH	BATCH	BATCH		BATCH	
ORIGINAL	0.041	<0.001	<0.010		92.3	
SPIKED SAMPLE	0.094	0.020	0.213		102	
SPIKE ADDED	0.050	0.020	0.200		10.0	
% RECOVERY	105.53%	100.00%	106.50%	NA	94.80%	NA
QC CHECK						
FOUND	0.097	0.041	0.400	100	9.50	1368
TRUE	0.094	0.039	0.408	100	10.0	1413
% RECOVERY	103.19%	105.13%	98.04%	100.00%	95.00%	96.82%
BLANK						
	<0.002	<0.010	<0.010	NA	<0.500	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