



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1757552	PAGE 1
REPORT DATE:	07/01/25	
DATE SAMPLED:	05/28/25	DATE RECEIVED: 05/29/25
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 subsequent pages.

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	0.005	<0.001	<0.010				
TS-2	0.051	0.011	2.72				
TS-4a	0.013		0.122				
TS-4d	0.051						
TS-5a	0.013		0.071			3.2	0.5
TS-5b	0.011						
TS-5d	0.013						
TS-6a	0.012	<0.001	0.050	101		4.3	0.6
TS-6b	0.012						
TS-6c	0.025						
TS-6d	0.034	0.015					
TS-7a	0.016		0.029			5.3	1.0
TS-7b	0.014						
TS-7d	0.013						
TS-8a	0.039		<0.010			9.1	4.4
TS-8d	0.072						
TS-11a	0.018	<0.001	0.144	122		5.3	1.8
TS-11b	0.018						
TS-11c	0.035						
TS-11d	0.080						
TS-12a	0.031		0.365			14	4.8
TS-12d	0.035						
TS-14	0.240	0.170	1.36	144	17.6		
TS-15a	0.015		0.054			5.3	0.3
TS-15b	0.022						
TS-15c	0.021						
TS-15d	0.049						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	155	
TS-2		3.26
TS-6a		0.272
TS-11a		0.492
TS-14	354	1.98



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SAMPLES FROM MLIRD		

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	SM20 4500PF	SM20 4500PF	SM204500N03F	SM20 2320B	EPA 200.7	SM2010200H	SM2010200H
DATE ANALYZED	06/01/25	05/30/25	05/29/25	06/03/25	06/04/25	06/03/25	06/03/25
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	BATCH	BATCH
ORIGINAL	0.049	0.014	0.054	65.4	20.6	3.6	<0.1
DUPLICATE	0.052	0.013	0.056	65.4	20.9	4.2	<0.1
RPD	5.65%	6.80%	3.44%	0.00%	1.72%	15.38%	NC
SPIKE SAMPLE							
SAMPLE ID	TS-15d	BATCH	TS-15a		BATCH		
ORIGINAL	0.049	0.014	0.054		20.6		
SPIKED SAMPLE	0.096	0.032	0.222		31.1		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	92.71%	93.38%	84.22%	NA	105.65%	NA	NA
QC CHECK							
FOUND	0.094	0.038	0.433	93.1	10.7		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.00%	97.44%	106.12%	93.10%	107.00%	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:

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 Project Manager