

**APPENDIX A**

**LAKE SEDIMENT PHYSICAL CHARACTERISTICS &  
GEOTECHNICAL PROPERTIES**

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES Remediation Area A&B-SMU 4&3 Index Test Results Summary (Top 1m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %					
OL-STA-30012-VC	OL-0011-01	1123593	919124.6	0	3.3	1.65	82	0	0	0	41.8	0	12	30	58.2	41	18	63	40	23	2.55	2.4
OL-VC-30041	OL-0285-11	1124395	918100.9	0.0	3.3	1.7	256.7	0	0	0	3.3	0	2.3	1	96.7	89.7	7					
OL-VC-30042	OL-0285-10	1124361	918392	0.0	3.3	1.7	138	0	0	0	1.1	0	0	1.1	98.9	66.9	32	71	45	26		
OL-VC-30043	OL-0285-15	1124087	918489.4	0.0	3.3	1.7	195.8	0	0	0	2.8	0	1	1.8	97.2	91.2	6	105	79	26		
OL-VC-30088	OL-0654-14	1126589	917348.7	0.0	1.0	0.5															2.64	
OL-VC-30088	OL-0654-15	1126589	917348.7	1.0	2.0	1.5															2.61	
OL-VC-30088	OL-0654-16	1126589	917348.7	2.0	3.0	2.5															2.60	
OL-STA-40001-SS	OL-0100-21	1125717	915316.2	0.0	0.5	0.3	122															
OL-STA-40002-VC	OL-0118-27	1125857	916064.3	0.0	3.3	1.7	75	0	0	0	38.8	0	3.8	35	61.2	47.4	13.8				2.75	4.1
OL-STA-40003-SB	OL-0004-05	1126212	916643.3	2.0	4.0	3.0	64	0	0	0	47.8	0	4.8	43	52.2	42.1	10.2				2.65	2.9
OL-SB-40006-SS	OL-0100-18	1126049	915034.3	0.0	0.5	0.3	112															
OL-SB-40008-SS	OL-0100-20	1126054	915565	0.0	0.5	0.3	87															
OL-VC-40033	OL-0293-14	1126583	914154.8	0.0	3.3	1.7	71.6															
OL-VC-40034	OL-0293-18	1126272	914342.2	0.0	3.3	1.7	77.9															
OL-VC-40035	OL-0280-11	1125978	914699	0.0	3.3	1.7	86.6															
OL-VC-40036	OL-0280-03	1126013	914971.6	0.0	3.3	1.7	78.7															
OL-VC-40037	OL-0286-07	1126276	915058.3	0.0	3.3	1.7	56.1	0	0	0	5.1	0	1.1	4	94.9	78.9	16	42	33	9		
OL-VC-40038	OL-0286-10	1125836	915146.1	0.0	3.3	1.7	90.5	2.3	0	2.3	22.6	1.6	3	18.0	75.1	69.1	6	51	40	11		
OL-VC-40039	OL-0279-08	1126344	915408.9	0.0	3.3	1.7	56.3															
OL-VC-40040	OL-0292-12	1125964	915413.8	0.0	3.3	1.7	100.2															
OL-VC-40041	OL-0286-13	1125806	915733.8	0.0	3.3	1.7	81.7											53	35	18		
OL-VC-40205	OL-0656-09	1126120	914556.2	0.0	1.0	0.5																2.67
OL-VC-40205	OL-0656-10	1126120	914556.2	1.0	2.0	1.5																2.69
OL-VC-40205	OL-0656-11	1126120	914556.2	2.0	3.0	2.5																2.70
OL-VC-40207	OL-0657-01	1126094	915230.3	0.0	1.0	0.5																2.65
OL-VC-40207	OL-0657-02	1126094	915230.3	1.0	2.0	1.5																2.65
OL-VC-40207	OL-0657-03	1126094	915230.3	2.0	3.0	2.5																2.66
OL-VC-40207	OL-0657-04	1126094	915230.3	3.0	4.0	3.5																2.66
OL-VC-40209	OL-0657-08	1125667	915229.8	0.0	1.0	0.5																2.70
OL-VC-40209	OL-0657-09	1125667	915229.8	1.0	2.0	1.5																2.78
OL-VC-40209	OL-0657-10	1125667	915229.8	2.0	3.0	2.5																2.73
OL-VC-40211	OL-0658-10	1125592	915778.6	0.0	1.0	0.5																2.71
OL-VC-40211	OL-0658-11	1125592	915778.6	1.0	2.0	1.5																2.73
OL-VC-40211	OL-0658-12	1125592	915778.6	2.0	3.0	2.5																2.75
S304	SF0052	1126196	915420.7	0.0	0.5	0.2		0	0	0	27	NA	NA	NA	73	63	10					
S304	SF0053	1126196	915420.7	0.5	1.0	0.7		0	0	0	62	NA	NA	NA	38	30	8					
S304	VC0025	1126196	915420.7	1.0	3.3	2.1		0	0	0	3	NA	NA	NA	97	87	10					
S358	SF0006	1126256	914359.8	0.0	0.5	0.2		0	0	0	58	NA	NA	NA	42	27	15					
S358	SF0007	1126256	914359.8	0.5	1.0	0.7		0	0	0	37	NA	NA	NA	63	42	21					
S360	SF0010	1125666	915765.9	0.0	0.1	0.0		0	0	0	42	NA	NA	NA	58	49	9					
S360	SF0066	1125666	915765.9	0.0	0.1	0.0		0	0	0	40	NA	NA	NA	60	53	7					
S360	SF0011	1125666	915765.9	0.1	0.5	0.3		0	0	0	22	NA	NA	NA	78	73	5					
S360	SF0164	1125666	915765.9	0.1	0.5	0.3		0	0	0	34	NA	NA	NA	66	62	4					
S360	SF0012	1125666	915765.9	0.5	1.0	0.7		0	0	0	55	NA	NA	NA	45	39	6					
S360	SF0169	1125666	915765.9	0.5	1.0	0.7		0	0	0	51	NA	NA	NA	49	43	6					
S81	S00520	1126367	915209.7	0.0	0.1	0.0	50.3	51.6	NA	NA	28.6	NA	NA	NA	19.8	18	1.8					
Average							99.1	2.7	0.0	0.1	31.1	0.2	3.5	16.7	66.2	55.6	10.6	64	45	19	2.68	3.1
Maximum						3.5	256.7	51.6	0.0	2.3	62.0	1.6	12.0	43.0	98.9	91.2	32.0	105	79	26	2.78	4.1
Minimum							50.3	0.0	0.0	0.0	1.1	0.0	0.0	1.0	19.8	18.0	1.8	42	33	9	2.55	2.4
Standard Deviation (s)							51.0	11.5	0.0	0.5	19.8	0.6	3.8	17.2	22.6	21.4	7.1	22	17	7	0.06	0.9
Number of Samples							19	20	19	19	20	8	8	8	20	20	20	6	6	6	19	3
Average+1.96s							199.1	25.3	0.0	1.2	70.0	1.3	10.9	50.5	110.4	97.5	24.4	108	79	33	2.79	4.8
Average-1.96s							-0.9	-19.9	0.0	-0.9	-7.7	-0.9	-3.9	-17.0	21.9	13.7	-3.3	20	12	4	2.56	1.4

**Notes:**

1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.
2. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
3. Negative values from Average-1.96s calculations do not have practical meaning.

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

Remediation Area A-SMU 4&3 Index Test Results Summary (Top 1m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %	
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %						
OL-VC-30088	OL-0654-14	1126589	917348.7	0.0	1.0	0.5															2.64		
OL-VC-30088	OL-0654-15	1126589	917348.7	1.0	2.0	1.5																2.61	
OL-VC-30088	OL-0654-16	1126589	917348.7	2.0	3.0	2.5																2.60	
OL-STA-40001-SS	OL-0100-21	1125717	915316.2	0.0	0.5	0.3	122																
OL-STA-40002-VC	OL-0118-27	1125857	916064.3	0.0	3.3	1.7	75	0	0	0	38.8	0	3.8	35	61.2	47.4	13.8					2.75	4.1
OL-STA-40003-SB	OL-0004-05	1126212	916643.3	2.0	4.0	3.0	64	0	0	0	47.8	0	4.8	43	52.2	42.1	10.2					2.65	2.9
OL-SB-40006-SS	OL-0100-18	1126049	915034.3	0.0	0.5	0.3	112																
OL-SB-40008-SS	OL-0100-20	1126054	915565	0.0	0.5	0.3	87																
OL-VC-40033	OL-0293-14	1126583	914154.8	0.0	3.3	1.7	71.6																
OL-VC-40034	OL-0293-18	1126272	914342.2	0.0	3.3	1.7	77.9																
OL-VC-40035	OL-0280-11	1125978	914699	0.0	3.3	1.7	86.6																
OL-VC-40036	OL-0280-03	1126013	914971.6	0.0	3.3	1.7	78.7																
OL-VC-40037	OL-0286-07	1126276	915058.3	0.0	3.3	1.7	56.1	0	0	0	5.1	0	1.1	4	94.9	78.9	16	42	33	9			
OL-VC-40038	OL-0286-10	1125836	915146.1	0.0	3.3	1.7	90.5	2.3	0	2.3	22.6	1.6	3	18	75.1	69.1	6	51	40	11			
OL-VC-40039	OL-0279-08	1126344	915408.9	0.0	3.3	1.7	56.3																
OL-VC-40040	OL-0292-12	1125964	915413.8	0.0	3.3	1.7	100.2																
OL-VC-40041	OL-0286-13	1125806	915733.8	0.0	3.3	1.7	81.7											53	35	18			
OL-VC-40205	OL-0656-09	1126120	914556.2	0.0	1.0	0.5																	2.67
OL-VC-40205	OL-0656-10	1126120	914556.2	1.0	2.0	1.5																	2.69
OL-VC-40205	OL-0656-11	1126120	914556.2	2.0	3.0	2.5																	2.70
OL-VC-40207	OL-0657-01	1126094	915230.3	0.0	1.0	0.5																	2.65
OL-VC-40207	OL-0657-02	1126094	915230.3	1.0	2.0	1.5																	2.65
OL-VC-40207	OL-0657-03	1126094	915230.3	2.0	3.0	2.5																	2.66
OL-VC-40207	OL-0657-04	1126094	915230.3	3.0	4.0	3.5																	2.66
OL-VC-40209	OL-0657-08	1125667	915229.8	0.0	1.0	0.5																	2.70
OL-VC-40209	OL-0657-09	1125667	915229.8	1.0	2.0	1.5																	2.78
OL-VC-40209	OL-0657-10	1125667	915229.8	2.0	3.0	2.5																	2.73
OL-VC-40211	OL-0658-10	1125592	915778.6	0.0	1.0	0.5																	2.71
OL-VC-40211	OL-0658-11	1125592	915778.6	1.0	2.0	1.5																	2.73
OL-VC-40211	OL-0658-12	1125592	915778.6	2.0	3.0	2.5																	2.75
S304	SF0052	1126196	915420.7	0.0	0.5	0.2		0	0	0	27	NA	NA	NA	73	63	10						
S304	SF0053	1126196	915420.7	0.5	1.0	0.7		0	0	0	62	NA	NA	NA	38	30	8						
S304	VC0025	1126196	915420.7	1.0	3.3	2.1		0	0	0	3	NA	NA	NA	97	87	10						
S358	SF0006	1126256	914359.8	0.0	0.5	0.2		0	0	0	58	NA	NA	NA	42	27	15						
S358	SF0007	1126256	914359.8	0.5	1.0	0.7		0	0	0	37	NA	NA	NA	63	42	21						
S360	SF0010	1125666	915765.9	0.0	0.1	0.0		0	0	0	42	NA	NA	NA	58	49	9						
S360	SF0066	1125666	915765.9	0.0	0.1	0.0		0	0	0	40	NA	NA	NA	60	53	7						
S360	SF0011	1125666	915765.9	0.1	0.5	0.3		0	0	0	22	NA	NA	NA	78	73	5						
S360	SF0164	1125666	915765.9	0.1	0.5	0.3		0	0	0	34	NA	NA	NA	66	62	4						
S360	SF0012	1125666	915765.9	0.5	1.0	0.7		0	0	0	55	NA	NA	NA	45	39	6						
S360	SF0169	1125666	915765.9	0.5	1.0	0.7		0	0	0	51	NA	NA	NA	49	43	6						
S81	S00520	1126367	915209.7	0.0	0.1	0.0	50.3	51.6	NA	NA	28.6	NA	NA	NA	19.8	18	1.8						
Average							80.7	3.4	0.0	0.2	35.9	0.4	3.2	25.0	60.8	51.5	9.3	49	36	13		2.68	3.5
Maximum							122.0	51.6	0.0	2.3	62.0	1.6	4.8	43.0	97.0	87.0	21.0	53	40	18		2.78	4.1
Minimum							50.3	0.0	0.0	0.0	3.0	0.0	1.1	4.0	19.8	18.0	1.8	42	33	9		2.60	2.9
Standard Deviation (σ)							20.3	12.9	0.0	0.6	17.3	0.8	1.6	17.5	20.3	19.4	5.0	6	4	5		0.05	0.8
Number of Samples							15	16	15	15	16	4	4	4	16	16	16	3	3	3		18	2
Average+1.96σ							120.4	28.6	0.0	1.3	69.8	2.0	6.2	59.2	100.5	89.5	19.2	60	43	22		2.78	5.2
Average-1.96σ							40.9	-21.9	0.0	-1.0	1.9	-1.2	0.1	-9.2	21.0	13.4	-0.6	37	29	3		2.59	1.8

**Notes:**

1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.
2. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
3. Negative values from Average-1.96σ calculations do not have practical meaning.

## APPENDIX A

### LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

Remediation Area B-SMU 3 Index Test Results Summary (Top 1m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %					
OL-STA-30012-VC	OL-0011-01	1123593	919124.6	0	3.3	1.65	82	0	0	0	41.8	0	11.8	30	58.2	40.7	17.5	63	40	23	2.55	2.4
OL-VC-30041	OL-0285-11	1124395	918100.9	0.0	3.3	1.7	256.7	0	0	0	3.3	0	2.3	1	96.7	89.7	7					
OL-VC-30042	OL-0285-10	1124361	918392	0.0	3.3	1.7	138	0	0	0	1.1	0	0	1.1	98.9	66.9	32	71	45	26		
OL-VC-30043	OL-0285-15	1124087	918489.4	0.0	3.3	1.7	195.8	0	0	0	2.8	0	1	1.8	97.2	91.2	6	105	79	26		
Average							168.1	0.0	0.0	0.0	12.3	0.0	3.8	8.5	87.8	72.1	15.6	80	55	25	2.55	2.4
Maximum						1.7	256.7	0.0	0.0	0.0	41.8	0.0	11.8	30.0	98.9	91.2	32.0	105	79	26	2.55	2.4
Minimum							82.0	0.0	0.0	0.0	1.1	0.0	0.0	1.0	58.2	40.7	6.0	63	40	23	2.55	2.4
Standard Deviation (σ)							75.1	0.0	0.0	0.0	19.7	0.0	5.4	14.4	19.7	23.7	12.1	22	21	2		
Number of Samples							4	4	4	4	4	4	4	4	4	4	4	3	3	3	1	1
Average+1.96σ							315.4	0.0	0.0	0.0	50.9	0.0	14.4	36.6	126.4	118.6	39.3	123	96	28		
Average-1.96σ							20.9	0.0	0.0	0.0	-26.4	0.0	-6.9	-19.7	49.1	25.6	-8.1	36	13	22		

**Notes:**

1. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
2. Negative values from Average-1.96σ calculations do not have practical meaning.

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

Remediation Area C- SMU 2 Index Test Results Summary ( Top 1m within Dredging Zone, non-ILWD)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %				
OL-STA-30019-VC	OL-0015-05	1120320	921110	0.0	3.3	1.7															
OL-VC-20068	OL-0290-05	1119832	921526	0	3.3	1.65	104.5														
OL-VC-20069	OL-0290-07	1119612	921377	0	3.3	1.65	79.4														
OL-VC-20070	OL-0289-15	1119473	921496	0	3.3	1.65	63.9	16.3	0	16.3	30	5	8	17	53.7	30.6	23.1				2.76
OL-VC-20071	OL-0289-18	1119429	921704	0	3.3	1.65	65.2	24.3	0	24.3	37.5	10.5	8	19	38.2	19.8	18.4	39	31	8	2.72
OL-VC-20072	OL-0232-09	1118947	922399	0	3.3	1.65	98.4	0	0	0	33.8	0	1.8	32	66.2	44.4	21.8				2.70
OL-VC-20080	OL-0289-20	1119415	921607	0	3.3	1.65	67.8	28.9	0	28.9	27.1	8	5	14.1	44	28.6	15.4				
OL-VC-20082	OL-0290-16	1119387	921635	0	3.3	1.65	73.7														
OL-VC-20135	OL-0594-01	1120106	921242	0.0	1.0	0.5															2.54
OL-VC-20135	OL-0594-02	1120106	921242	1.0	2.0	1.5															2.57
OL-VC-20135	OL-0594-03	1120106	921242	2.0	3.0	2.5															2.52
OL-VC-20135	OL-0594-04	1120106	921242	3.0	4.0	3.5															2.58
OL-VC-20136	OL-0594-11	1120048	921371	0.0	1.0	0.5															2.64
OL-VC-20136	OL-0594-12	1120048	921371	1.0	2.0	1.5															3.18
OL-VC-20136	OL-0594-13	1120048	921371	2.0	3.0	2.5															2.96
OL-VC-20136	OL-0594-14	1120048	921371	3.0	4.0	3.5															3.24
OL-VC-20136	OL-0594-15	1120048	921371	3.0	4.0	3.5															3.16
OL-VC-20137	OL-0595-01	1119972	921455	0.0	1.0	0.5															2.88
OL-VC-20137	OL-0595-02	1119972	921455	1.0	2.0	1.5															2.83
OL-VC-20137	OL-0595-03	1119972	921455	2.0	3.0	2.5															2.66
OL-VC-20137	OL-0595-04	1119972	921455	3.0	4.0	3.5															2.60
OL-VC-20138	OL-0595-08	1119882	921467	0.0	1.0	0.5															2.93
OL-VC-20138	OL-0595-09	1119882	921467	1.0	2.0	1.5															2.93
OL-VC-20138	OL-0595-10	1119882	921467	2.0	3.0	2.5															3.22
OL-VC-20138	OL-0595-11	1119882	921467	3.0	4.0	3.5															3.40
OL-VC-20138	OL-0595-12	1119882	921467	3.0	4.0	3.5															3.40
OL-VC-20139	OL-0596-01	1119753	921417	0.0	1.0	0.5															2.86
OL-VC-20139	OL-0596-02	1119753	921417	1.0	2.0	1.5															2.64
OL-VC-20139	OL-0596-03	1119753	921417	2.0	3.0	2.5															2.57
OL-VC-20139	OL-0596-04	1119753	921417	3.0	4.0	3.5															2.62
OL-VC-20140	OL-0596-10	1119700	921481	0.0	1.0	0.5															2.74
OL-VC-20140	OL-0596-11	1119700	921481	1.0	2.0	1.5															2.72
OL-VC-20140	OL-0596-12	1119700	921481	2.0	3.0	2.5															2.72
OL-VC-20140	OL-0596-13	1119700	921481	3.0	4.0	3.5															2.73
OL-VC-20141	OL-0598-01	1119589	921539	0.0	1.0	0.5															2.67
OL-VC-20141	OL-0598-02	1119589	921539	1.0	2.0	1.5															2.69
OL-VC-20141	OL-0598-03	1119589	921539	2.0	3.0	2.5															2.72
OL-VC-20141	OL-0598-04	1119589	921539	3.0	4.0	3.5															2.70
OL-VC-20147	OL-0597-01	1118812	922310	0.0	1.0	0.5															2.68
OL-VC-20147	OL-0597-02	1118812	922310	1.0	2.0	1.5															2.69
OL-VC-20147	OL-0597-03	1118812	922310	2.0	3.0	2.5															2.68
OL-VC-20147	OL-0597-04	1118812	922310	2.0	3.0	2.5															2.68
OL-VC-20147	OL-0597-05	1118812	922310	3.0	4.0	3.5															2.71
S307	VC0196	1119488	921648	0.0	0.5	0.2		0	0	0	61	NA	NA	NA	39	29	10				
S307	VC0197	1119488	921648	0.5	1.0	0.7		0	0	0	55	NA	NA	NA	45	32	13				
S307	VC0049	1119488	921648	1.0	3.3	2.1		0	0	0	46	NA	NA	NA	55	35	20				
S325	SF0094	1120083	921148	0.0	0.1	0.0		0	0	0	10	NA	NA	NA	90	82	8				
S325	SF0095	1120083	921148	0.1	0.5	0.3		0	0	0	8	NA	NA	NA	92	84	8				
S325	SF0096	1120083	921148	0.5	1.0	0.7		0	0	0	14	NA	NA	NA	86	78	8				
S325	SB0003	1120083	921148	1.0	3.3	2.1		0	0	0	10	NA	NA	NA	90	81	9				
S327	SF0099	1120008	921609	0.0	0.5	0.2		0	0	0	27	NA	NA	NA	73	65	8				
S327	SF0100	1120008	921609	0.5	1.0	0.7		0	0	0	29	NA	NA	NA	71	62	9				
S327	SB0007	1120008	921609	1.0	2.0	1.5		0	0	0	38	NA	NA	NA	62	53	9				
S327	SB0008	1120008	921609	2.0	4.6	3.3		0	0	0	46	NA	NA	NA	54	40	14				
S332	BC0001	1118912	922516	0.0	0.1	0.0		0	0	0	87	NA	NA	NA	13	10	3				
S332	SF0109	1118912	922516	0.0	0.5	0.2		0	0	0	29	NA	NA	NA	71	62	9				
S332	BC0002	1118912	922516	0.1	0.5	0.3		0	0	0	21	NA	NA	NA	79	71	8				
S332	SF0110	1118912	922516	0.5	1.0	0.7		0	0	0	42	NA	NA	NA	58	51	7				
S332	SB0017	1118912	922516	1.0	3.3	2.1		0	0	0	43	NA	NA	NA	57	49	8				
S35	S00535	1118845	922397	0.0	0.1	0.0	49.7	47.1	NA	NA	47.4	NA	NA	NA	5.5	4.4	1.1				
S36	S00532	1119518	921623	0.0	0.1	0.0	43.1	43.8	NA	NA	48.6	NA	NA	NA	7.6	6.9	0.7				
S37	S00521	1119606	921664	0.0	0.1	0.0	49.8	51.9	NA	NA	39.6	NA	NA	NA	8.5	5.6	2.9				
S435	SF0172	1119388	921636	0.0	0.2	0.1		0	0	0	86	NA	NA	NA	14	11	3				
S47	S00519	1120174	921174	0.0	0.1	0.0	57.4	58.2	NA	NA	17.5	NA	NA	NA	24.3	22.9	1.4				
Average							68.4	10.8	0.0	3.3	37.3	5.9	5.7	20.5	51.9	42.3	9.6	39	31	8	2.80
Maximum							104.5	58.2	0.0	28.9	87.0	10.5	8.0	32.0	92.0	84.0	23.1	39	31	8	3.40
Minimum							43.1	0.0	0.0	0.0	8.0	0.0	1.8	14.1	5.5	4.4	0.7	39	31	8	2.52
Standard Deviation (σ)							19.6	19.3	0.0	8.5	20.5	4.5	3.0	7.9	27.5	25.9	6.3				0.23
Number of Samples							11	25	21	21	25	4	4	4	25	25	25	1	1	1	38
Average+1.96σ							106.9	48.7	0.0	20.1	77.6	14.7	11.5	36.0	105.8	93.0	21.9				3.25
Average-1.96σ							30.0	-27.1	0.0	-13.4	-2.9	-3.0	-0.1	5.0	-2.0	-8.4	-2.8				2.34

**Notes:**

1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.
2. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
3. Negative values from Average-1.96σ calculations do not have practical meaning.

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

### Remediation Area D - ILWD Index Test Results Summary (Top 2m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %
								Percent Gravel %	Percent Coarse Gravel (19mm- 75mm) %	Percent Fine Gravel (4.75mm- 19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm- 0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %						
OL-STA-10001-VC	OL-0118-14	1118518	923452	0.0	3.3	1.7	160	0.1	0	0.1	1.4	0	0.4	1	98.5	84.9	13.6	102	32	70	2.37	7	
OL-STA-10002-VC	OL-0118-09	1118312	924292	3.3	6.6	5.0	203	0	0	0	3.1	0	0	3.1	96.9	58.1	38.8	90	41	49	2.5	8.7	52
OL-STA-10003-VC	OL-0118-16	1118154	924908	0.0	3.3	1.7	137	0	0	0	1.6	0	0	1.6	98.4	73.3	25.1	76	35	41	2.75	3.2	61
OL-STA-10004-VC	OL-0118-18	1118356	924951	3.3	6.6	5.0	233	0.1	0	0.1	2.3	0	0	2.3	97.6	86.0	11.6	94	41	53	2.53	4.5	70
OL-STA-10005-VC	OL-0118-20	1117898	925576	0.0	3.3	1.7	178	0	0	0	2.4	0	0	2.4	97.6	80.5	17.1	114	53	61	2.38	2.9	52
OL-STA-10007-VC	OL-0118-07	1117647	926138	3.3	6.6	5.0	141	0	0	0	2.6	0	0	2.6	97.4	84.9	12.5	75	43	32	2.62	5.8	70
OL-STA-10010-VC	OL-0118-12	1117686	924774	3.3	6.6	5.0	89	0.2	0	0.2	33.9	1	12	21	65.9	49.5	16.4	58	42	16	2.41	6.9	61
OL-STA-10012-VC	OL-0118-05	1116801	925924	3.3	6.6	5.0	123	0	0	0	9.3	0	2	7.3	90.7	77.4	13.3	68	40	28	2.43	4.6	52
OL-STA-10014-SB	OL-0111-09	1118399	924596	0.0	2.0	1.0	87																
OL-STA-10016-SB	OL-0111-20	1117874	925906	0.0	2.0	1.0	124	0	0	0	1	0	0	1	99	72	27	60	38	22	2.34		
OL-STA-10016-SB	OL-0111-21	1117874	925906	5.0	7.0	6.0	61																
OL-STA-10016-VC	OL-0119-02	1117872	925899	0.0	3.3	1.7	108.3	0	0	0	1.5	0	0.5	1.0	98.5	66.8	31.7	45	31	23			
OL-STA-10017-VC	OL-0119-06	1118246	926104	0.0	3.3	1.7	152																
OL-STA-10018-SB	OL-0111-35	1117844	923784	0.0	2.0	1.0	121																
OL-STA-10019-SB	OL-0111-45	1118112	923848	0.0	2.0	1.0	71																
OL-STA-10019-SB	OL-0111-46	1118112	923848	5.0	7.0	6.0	151																
OL-STA-10020-SB	OL-0111-57	1117703	924383	0.0	2.0	1.0	19																
OL-STA-10021-SB	OL-0111-70	1117948	924470	0.0	2.0	1.0	133																
OL-STA-10022-SB	OL-0111-84	1118139	924560	0.0	2.0	1.0	151																
OL-STA-10023-SB	OL-0071-54	1117457	925020	0.0	2.0	1.0	173	0	0	0	35.4	12.1	7.1	16.2	64.6	47.4	17.2		Non-Plastic		2.61	8.3	70
OL-STA-10024-SB	OL-0071-66	1117849	925237	0.0	2.0	1.0	100																
OL-STA-10024-SB	OL-0071-67	1117849	925237	5.0	7.0	6.0	67																
OL-STA-10025-SB	OL-0071-31	1117211	925485	0.0	2.0	1.0	157	0	0	0	2.6	0	0.6	2	97.4	75.9	21.5		Non-Plastic		2.39	5	83
OL-STA-10026-VC	OL-0119-03	1117572	925702	3.3	6.6	5.0	54.7	0	0	0	55.3	12	17	26.3	44.7	26.7	18	69	45	24			
OL-VC-10034	OL-0236-08	1118060	923086	0.0	3.3	1.7	180.6																
OL-VC-10034	OL-0236-07	1118060	923086	3.3	6.6	5.0	213.1																
OL-VC-10037	OL-0236-13	1118399	923321	0.0	3.3	1.7	112.3																
OL-VC-10037	OL-0256-01	1118399	923321	3.3	6.6	5.0	161.4	0	0	0	1.6	0	0	1.6	98.4	54.4	44.0	78	59	19	2.45		
OL-VC-10038	OL-0250-19	1117948	923415	0.0	3.3	1.7	161.3	3	0	3	35.6	5.6	11	19	61.4	27.4	34.0	127	80	47			
OL-VC-10038	OL-0236-17	1117948	923415	3.3	6.6	5.0	215.2																
OL-VC-10040	OL-0237-01	1118352	923587	0.0	3.3	1.7	88.9																
OL-VC-10040	OL-0237-02	1118352	923587	3.3	6.6	5.0	114.3																
OL-VC-10046	OL-0237-03	1118047	924009	0.0	3.3	1.7	173.4																
OL-VC-10046	OL-0250-15	1118047	924009	3.3	6.6	5.0	153.6	0	0	0	4.2	0	1	3.2	95.8	66.8	29	108	70	38	2.67		
OL-VC-10047	OL-0237-07	1118465	924146	0.0	3.3	1.7	144.9																
OL-VC-10047	OL-0250-13	1118465	924146	3.3	6.6	5.0	151.3	0	0	0	4	0	1	3	96	64	32	91	56	35	2.63		
OL-VC-10054	OL-0237-15	1117824	924273	0.0	3.3	1.7	134.3																
OL-VC-10057	OL-0237-11	1118236	924432	0.0	3.3	1.7	143.7																
OL-VC-10057	OL-0250-09	1118236	924432	3.3	6.6	5.0	197.1	0	0	0	27.6	0.6	5	22	72.4	45.4	27	130	88	42			
OL-VC-10062	OL-0237-19	1117994	924727	0.0	3.3	1.7	177.8																
OL-VC-10062	OL-0250-07	1117994	924727	3.3	6.6	5.0	127.3	0	0	0	7.6	0	1.6	6	92.4	59.4	33	103	63	40			
OL-VC-10063	OL-0250-05	1118435	924795	0.0	3.3	1.7	221.6	0	0	0	1.2	0	0	1.2	98.8	68.8	30	88	60	28			
OL-VC-10063	OL-0238A-03	1118435	924795	3.3	6.6	5.0	209.4																
OL-VC-10066	OL-0238A-07	1117659	924773	0.0	3.3	1.7	131.7																
OL-VC-10066	OL-0249-12	1117659	924773	3.3	6.6	5.0	112.4	0	0	0	30.3	6	9	15.3	69.7	52.7	17	60	50	10			
OL-VC-10071	OL-0249-14	1118399	925184	0.0	3.3	1.7	169.7	0	0	0	1.1	0	0	1.1	98.9	56.9	42	86	47	39			
OL-VC-10071	OL-0238A-11	1118399	925184	3.3	6.6	5.0	186																
OL-VC-10073	OL-0245-01	1118025	925124	0.0	3.3	1.7	196.6																
OL-VC-10073	OL-0245-02	1118025	925124	3.3	6.6	5.0	147.7																
OL-VC-10076	OL-0245-06	1117526	925240	0.0	3.3	1.7	151.4																
OL-VC-10076	OL-0245-07	1117526	925240	3.3	6.6	5.0	154.2																
OL-VC-10077	OL-0249-18	1118080	925346	0.0	3.3	1.7	150.4	0	0	0	0.4	0	0	0.4	99.6	68.6	31	61	44	17			
OL-VC-10077	OL-0245-10	1118080	925346	3.3	6.6	5.0	187.5																
OL-VC-10078	OL-0248-05	1117846	925416	0.0	3.3	1.7	48.1																
OL-VC-10078	OL-0248-06	1117846	925416	3.3	6.6	5.0	108.5																
OL-VC-10080	OL-0245-14	1116981	925396	0.0	3.3	1.7	135.2																
OL-VC-10080	OL-0250-01	1116981	925396	3.3	6.6	5.0	94.6	0	0	0	9.2	1	3	5.2	90.8	64.8	26	56	40	16			
OL-VC-10081A	OL-0248-01	1117444	925497	0.0	3.3	1.7	132.6																
OL-VC-10081A	OL-0250-03	1117444	925497	3.3	6.6	5.0	172.1	0	0	0	3	0	1	2	97	59	38	122	67	55	2.69		
OL-VC-10089	OL-0248-10	1117288	925743	0.0	3.3	1.7	91.7																
OL-VC-10089	OL-0248-11	1117288	925743	3.3	6.6	5.0	135.7																
OL-VC-10090	OL-0248-15	1118132	925905	0.0	3.3	1.7	179.1																
OL-VC-10090	OL-0256-09	1118132	925905	3.3	6.6	5.0	104.3	0	0	0	1.7	0.7	0	1	98.3	78.3	20	52	35	17			
OL-VC-10094	OL-0248-20	1116632	925868	0.0	3.3	1.7	126.7																
OL-VC-10094	OL-0249-11	1116632	925868	3.3	6.6	5.0	86.3	0	0	0	11	0	2	9	89	73	16	46	31	15	2.58		
OL-VC-10095A	OL-0256-05	1118336	925975	0.0	3.3	1.7	193	0	0	0	2.7	0.7	1	1	97.3	73.3	24	109	38	71			
OL-VC-10095A	OL-0256-06	1118336	925975	3.3	6.6	5.0	140.2	0	0	0	1.9	0	0.9	1	98.1	79.1	19	101	41	60			

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

### Remediation Area D - ILWD Index Test Results Summary (Top 2m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %		
								Percent Gravel %	Percent Coarse Gravel (19mm- 75mm) %	Percent Fine Gravel (4.75mm- 19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm- 0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %								
OL-VC-10096	OL-0256-03	1117842	925985	0.0	3.3	1.7	101.7	0	0	0	3.2	1	1	1.2	96.8	73.8	23	56	36	20					
OL-VC-10096	OL-0244A-08	1117842	925985	3.3	6.6	5.0	94.5																		
OL-VC-10102	OL-0244A-12	1117485	926068	3.3	6.6	5.0	101.4																		
OL-VC-10103	OL-0244A-16	1117084	926132	0.0	3.3	1.7	161.5																		
OL-VC-10103	OL-0244A-17	1117084	926132	3.3	6.6	5.0	178																		
OL-VC-10105	OL-0244A-01	1116859	926187	0.0	3.3	1.7	210.9																		
OL-VC-10105	OL-0296-06	1116859	926187	0.0	3.3	1.7	215.3	0	0	0	11.7	1.7		6	88.3	53.8	34.5	89	55	34	2.6				
OL-VC-10105	OL-0256-12	1116859	926187	3.3	6.6	5.0	162.6	0	0	0	27	2	8	17	73	47	26	84	59	25					
OL-STA-20002-VC	OL-0071-03	1118665	922578	3.3	6.6	5.0	89	0	0	0	12.8	0	0.8	12	87.2	77.3	9.9	65	41	24	2.36	4.4			
OL-STA-20004-VC	OL-0118-25	1118299	922721	0.0	3.3	1.7															2.69				
OL-STA-20004-VC	OL-0071-08	1118299	922721	0.0	3.3	1.7	136	0	0	0	27	0	4	23	73	51.4	21.6	85	44	41		13.9			
OL-STA-20007-VC	OL-0071-17	1118055	922922	3.3	6.6	5.0	113	0	0	0	7.5	0.5	2	5	92.5	79.3	13.2	110	39	71		15.7			
OL-STA-20012-VC	OL-0071-25	1118395	922766	3.3	6.6	5.0	128	0	0	0	10.9	0	1.9	9	89.1	82.0	7.2	109	46	63		13.4			
OL-STA-20014-VC	OL-0071-28	1118322	922919	0.0	3.3	1.7	132	0	0	0	1.6	0	0	2	98.4	83.4	15	71	46	25		7			
OL-STA-20015-VC	OL-0071-30	1118145	922986	3.3	6.6	5.0	178	0	0	0	0.5	0	0	1	99.5	60	39.5	127	63	64		6.5			
OL-VC-20075	OL-0231-04	1118764	922723	0.0	3.3	1.7	242.2																		
OL-VC-20075	OL-0232-17	1118764	922723	3.3	6.6	5.0	178.3	0	0	0	5.2	3.2	1	1	94.8	51.8	43.0	74	50	24					
OL-VC-20078	OL-0233-04	1118584	923176	0.0	3.3	1.7	219.1	0	0	0	1.6	0	0	1.6	98.4	87.4	11	122	66	56					
OL-VC-20078	OL-0231-15	1118584	923176	3.3	6.6	5.0	137.4																		
OL-VC-20079	OL-0231-18	1118450	923077	0.0	3.3	1.7	140.9																		
OL-VC-20079	OL-0297-02	1118450	923077	0.0	3.3	1.7	123.3	0	0	0	0.7	0	0	0.7	99.3	88.7	10.6	55	36	19	2.58				
OL-VC-20079	OL-0231-19	1118450	923077	3.3	6.6	5.0	153.6																		
OL-VC-70017	OL-0233-12	1117926	926251	0.0	3.3	1.7	226.7																		
OL-VC-70017	OL-0235-14	1117926	926251	3.3	6.6	5.0	207	0.3	0	0.3	1.4	0	0.7	0.7	98.3	63.3	35	109	60	49	2.59				
OL-VC-70021	OL-0234-09	1117331	926382	0.0	3.3	1.7	130.7																		
OL-VC-70021	OL-0234-10	1117331	926382	3.3	6.6	5.0	103																		
OL-VC-70023	OL-0234-18	1116854	926349	0.0	3.3	1.7	109.1																		
OL-VC-70023	OL-0234-19	1116854	926349	3.3	6.6	5.0	69.7																		
OL-VC-80029	OL-0281-08	1118587	924084	3.3	6.6	5.0	123.3	0	0	0	6	1	2	3	94	67	27	79	55	24	2.57				
OL-VC-80030	OL-0281-17	1118545	924726	3.3	6.6	5.0	232	0	0	0	1.5	0	0	1.5	98.5	69.5	29	99	61	38					
OL-VC-80031	OL-0272-07	1118458	925320	0.0	0.5	0.3	161.3																		
OL-VC-80031	OL-0272-08	1118458	925320	0.5	3.3	1.9	238.1																		
OL-VC-80031	OL-0272-09	1118458	925320	3.3	6.6	5.0	185.6																		
OL-VC-80031	OL-0303-05	1118458	925320	3.3	6.6	5.0	179.4	0.4	0	0.4	1.3	0	0.5	0.8	98.3	64.4	33.9	80	45	35	2.55				
OL-VC-80033	OL-0281-09	1118853	923783	0.0	0.5	0.3	211.2	0	0	0	0.8	0	0	0.8	99.2	66.2	33	115	47	68	2.62				
OL-VC-80033	OL-0271-01	1118853	923783	3.3	6.6	5.0	147.9																		
OL-VC-80034	OL-0281-10	1118809	924391	0.0	0.5	0.3	215.6	0	0	0	0.7	0	0	0.7	99.3	74.3	25	113	49	64					
OL-VC-80034	OL-0304-08	1118809	924391	0.5	3.3	1.9	232.5																		
OL-VC-80034	OL-0271-06	1118809	924391	3.3	6.6	5.0	181.4																		
OL-VC-80035	OL-0281-18	1118788	925064	0.0	0.5	0.3	219.2	0	0	0	2.1	1	0	1.1	97.9	72.9	25.0	103	48	55	2.73				
OL-VC-80035	OL-0273-11	1118788	925064	3.3	6.6	5.0	186.6																		
S309	SF0062	1118178	923491	0.0	0.5	0.2		0.1	0	0.1	27.4	0.2	3.9	23.3	72.5	47.9	24.6	34.9	30.2	4.7	2.45			59.2	
S309	SF0063	1118178	923491	0.5	1.0	0.7		0	0	0	7	0	1	6	93	76	17	35.3	32.3	3	2.48			57.8	
S309	VC0087	1118178	923491	1.0	2.4	1.7		0	0	0	10	0	0	6	90	82	8							59.2	
S309	VC0065	1118178	923491	2.4	5.7	4.1		0	0	0	7.1	0	2.5	4.6	92.9	67.9	25.0	36.3	33.7	2.6	2.54			59.4	
S310	SF0064	1118393	924481	0.0	0.5	0.2		0	0	0	9.3	0	0.3	9	90.7	58.9	31.8	35.3	31.8	3.5	2.53			62.1	
S310	SF0065	1118393	924481	0.5	1.0	0.7		0	0	0	5.1	0	0.4	4.7	94.9	71.0	23.9	34.7	32.8	1.9	2.57			61.5	
S310	VC0073	1118393	924481	1.0	3.3	2.1		0	0	0	2.8	0	1.1	1.7	97.2	69.3	27.9	36.7	24.6	12.1	2.52			59	
S310	VC0074	1118393	924481	3.3	6.6	4.9		0	0	0	1.2	0	0.4	0.8	98.8	72.2	26.6	37.7	32.8	4.9	2.58			58.7	
S311	VC0207	1117120	925290	0.0	0.5	0.2		0	0	0	26	NA	NA	NA	74	66	8							59.2	
S311	VC0208	1117120	925290	0.5	1.0	0.7		0	0	0	10	NA	NA	NA	90	84	6							58.8	
S311	VC0081	1117120	925290	1.0	3.3	2.1		0	0	0	5.2	0	1	4.2	94.8	69.8	25	39.5	36.1	3.4	2.58			60.4	
S311	VC0082	1117120	925290	3.3	6.6	4.9		0	0	0	7.1	0	0.7	6.4	92.9	68	24.9	44.5	40.8	3.7	2.62			61.9	
S311	CT0003	1117120	925290	5.6	5.6	5.6	139.8																	2.56	34
S312	SF0068	1117276	926023	0.0	0.5	0.2		0	0	0	4.9	0	1.1	3.8	95.1	83.9	11.2	31.2	29.3	1.9	2.57			56.9	
S312	SF0069	1117276	926023	0.5	1.0	0.7		0	0	0	1.7	0	0.1	1.6	98.3	86.2	12.1	30.4	28.4	2	2.54			56.5	
S312	VC0089	1117276	926023	1.0	3.3	2.1		0	0	0	5.5	0	1.2	4.3	94.5	62.8	31.7	39.3	35.8	3.5	2.58			59.5	
S312	CT0004	1117276	926023	4.5	4.5	4.5	158.8				0.3	0	0.1	0.2	99.7	NA	NA							2.02	32
S312	VC0090	1117276	926023	3.3	6.6	4.9		0	0	0	4.9	0	0.4	4.5	95.1	69.6	25.5	34.1	29.9	4.2	2.56			61	
S339	SF0124	1118149	922819	0.0	0.5	0.2		0	0	0	21.9	0	7.9	14	78.1	71.0	7.1	34	30.9	3.1	2.55			64.3	
S339	SF0125	1118149	922819	0.5	1.0	0.7		0	0	0	15	0	4.7	10.3	85	75	10	37.4	32.5	4.9	2.53			63	
S339	CT0005a	1118149	922819	1.2	1.2	1.2	135.2				3.9	0.1	0.5	3.3	96.1	91.1	5.0							2.54	32
S339	SB0031	1118149	922819	1.0	3.3	2.1		0	0	0	6.7	0	0.8	5.9	93.3	74.9	18.4	36.9	29.3						

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

### Remediation Area D - ILWD Index Test Results Summary (Top 2m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %
								Percent Gravel %	Percent Coarse Gravel (19mm- 75mm) %	Percent Fine Gravel (4.75mm- 19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm- 0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %						
S340	SF0126	1117863	923498	0.0	0.5	0.2		0	0	0	35.7	0	11.5	24.2	64.3	43.4	20.9	35.1	32.6	2.5	2.55		58.2
S340	SF0127	1117863	923498	0.5	1.0	0.7		0	0	0	12.6	0	3.7	8.9	87.4	61.4	26.0	37.5	34.1	3.4	2.58		59.8
S340	SB0033	1117863	923498	1.0	3.3	2.1		0	0	0	33.6	0	12.6	21	66.4	37.8	28.6	36.9	35.5	1.4	2.54		64.8
S340	SB0034	1117863	923498	3.3	6.6	4.9		0	0	0	18.7	0	3.1	15.6	81.3	68.0	13.3	40.3	36.3	4	2.52		64.9
S341	SF0128	1117794	923911	0.0	0.5	0.2		3.6	0	3.6	44.2	6.9	14.2	23.1	52.2	42.2	10.0	29.5	27.4	2.1	2.58		66.2
S341	SF0129	1117794	923911	0.5	1.0	0.7		1.5	0	1.5	44.6	13.4	13.1	18.1	53.9	43.8	10.1	47.2	44.3	2.9	2.71		71.9
S341	SB0063	1117794	923911	1.0	2.8	1.9		0	0	0	11.4	1	4.5	5.9	88.6	71.5	17.1	34.4	32.8	1.6	2.57		60.3
S341	SB0064	1117794	923911	2.8	5.2	4.0		0.3	0	0.3	4.5	0.5	0.7	3.3	95.2	69.6	25.6	33.6	31	2.6	2.53		57.6
S341	CT0006	1117794	923911	5.5	5.5	5.5	118.2	0.3	0	0.3	4.7	0.5	1.2	3	95.0	95	1.5				2.52		35
S341	SF0119	1117794	923911	5.2	6.6	5.9		0	0	0	3.3	0.3	0.5	2.5	96.7	63.4	33.3	38.6	35.7	2.9	2.53		57.2
S342	BC0011	1118375	923951	0.0	0.1	0.0		0	0	0	38	NA	NA	NA	62	55	7						
S342	BC0012	1118375	923951	0.1	0.3	0.2		0	0	0	66	NA	NA	NA	34	29	5						
S342	SF0130_T	1118375	923951	0.0	0.5	0.2		3.1	0.1	3	15.2	0.2	6.1	8.9	81.7	77.3	4.4	42.2	36.9	5.3	2.53		58.9
S342	SF0131	1118375	923951	0.5	1.0	0.7		0	0	0	7.9	0	1.2	6.7	92.1	64.7	27.4	39.8	34.4	5.4	2.59		49.3
S342	SB0037	1118375	923951	1.0	3.3	2.1		0	0	0	4.3	0	0.9	3.4	95.7	68.5	27.2	34.9	33	1.9	2.5		55.9
S342	SB0038	1118375	923951	3.3	6.6	4.9		0	0	0	2.2	0	0.5	1.7	97.8	64.8	33.0	38.7	33.3	5.4	2.56		52.8
S343	SF0132	1117698	924527	0.0	0.5	0.2		0.3	0	0.3	26.7	2.9	6.8	17	73	56.2	16.8	28.5	25.5	3	2.53		58.4
S343	SF0133	1117698	924527	0.5	1.0	0.7		0.2	0	0.2	16	0.4	2.8	12.8	83.8	63.9	19.9	31.9	27.5	4.4	2.57		60.5
S343	SB0039	1117698	924527	1.0	3.3	2.1		2.1	0	2.1	48.1	6.6	11	30.5	49.8	39.2	10.6	48.6	45	3.6	2.54		66.6
S343	SF0167	1117698	924527	1.0	3.3	2.1		0	0	0	45.8	0.4	12.3	33.1	54.2	43.8	10.4	42.9	40.7	2.2	2.55		66.8
S343	SB0040	1117698	924527	3.3	6.6	4.9		5	0	5	47.9	3.5	15.5	28.9	47.1	33.8	13.3	46.5	41	5.5	2.54		68.3
S344	BC0007	1118147	925066	0.0	0.1	0.0		0	0	0	78	NA	NA	NA	22	17	5						
S344	SF0111_T	1118147	925066	0.0	0.5	0.2		0	0	0	15	NA	NA	NA	85	78	7						
S344	BC0008	1118147	925066	0.1	0.5	0.3		0	0	0	17	NA	NA	NA	83	78	5						
S344	SF0112	1118147	925066	0.5	1.0	0.7		0	0	0	0.6	0	0.2	0.4	99.4	73.5	25.9	33.4	29.1	4.3	2.56		56.3
S344	CT0009	1118147	925066	2.1	2.1	2.1	90.6	0.1	0	0.1	3.4	0.3	1.1	2	96.5	92.5	4.0						33
S344	SB0019	1118147	925066	1.0	3.3	2.1		0	0	0	6.8	0	1.1	5.7	93.2	67.8	25.4	36.1	33	3.1	2.59		56.8
S344	SB0070	1118147	925066	1.0	3.3	2.1		0	0	0	5.5	0	0.7	4.8	94.5	69.8	24.7	37.6	32.6	5	2.59		58.9
S344	SB0020	1118147	925066	3.3	6.6	4.9		0	0	0	2.2	0	0.4	1.8	97.8	70.7	27.1	39.4	35.9	3.5	2.61		54
S346	SF0138	1117238	924923	0.0	0.5	0.2		10.3	6.8	3.5	23.2	8.4	8.6	6.2	66.5	52.1	14.4	26.1	24.7	1.4	2.63		61.8
S346	SF0139	1117238	924923	0.5	1.0	0.7		0.4	0	0	14.6	2.7	3.2	8.7	85	67.3	17.7	30.4	30.1	0.3	2.6		58.7
S346	SB0045	1117238	924923	1.0	5.2	3.1		0.1	0	0.1	12.4	0.2	1.6	10.6	87.5	65.0	22.5	36.5	35.3	1.2	2.56		60.6
S346	SB0046	1117238	924923	5.2	6.6	5.9		0.8	0	0.8	34.9	3.5	5.8	25.6	64.3	47.0	17.3		Non-Plastic			2.54	56.8
S347	SF0140	1117468	925224	0.0	0.5	0.2		2.2	0	2.2	53.9	6.1	21.6	26.2	43.9	30.2	13.7		Non-Plastic			2.45	63.4
S347	SF0141	1117468	925224	0.5	1.0	0.7		5.4	0	5.4	56	9.9	18.9	27.2	38.6	29.3	9.3		Non-Plastic			2.4	66.4
S347	SB0047	1117468	925224	1.0	3.3	2.1		9.2	0	9.2	24.8	5.7	6.4	12.7	66	49.3	16.7		Non-Plastic			2.45	62.8
S347	SB0048	1117468	925224	3.3	6.6	4.9		0.3	0	0.3	22.1	1.1	5.9	15.1	77.6	57.9	19.7	44.5	41.4	3.1	2.57		61.3
S348	SF0142	1116868	925641	0.0	0.5	0.2		0	0	0	7.4	0	2	5.4	92.6	62.5	30.1	40.3	35.2	5.1	2.55		60.2
S348	SF0143	1116868	925641	0.5	1.0	0.7		0	0	0	3.7	0	0.4	3.3	96.3	71.0	25.3	36.6	33.6	3	2.58		59.1
S348	SB0049	1116868	925641	1.0	3.6	2.3		0	0	0	19.9	0	6.2	13.7	80.1	59.8	20.3	46.3	36	10.3	2.57		62.3
S348	SB0050	1116868	925641	3.6	6.6	5.1		0	0	0	2.7	0	1.4	1.3	97.3	66.6	30.7	33.8	30.6	3.2	2.59		59.4
S350	SF0146	1116488	926012	0.0	0.5	0.2		0.5	0	0.5	9.6	0	2.8	6.8	89.9	57.8	32.1	38.2	33.5	4.7	2.68		60.1
S350	SF0147	1116488	926012	0.5	1.0	0.7		0	0	0	6.7	0	1.1	5.6	93.3	70.0	23.3	33.6	31.2	2.4	2.61		59.5
S350	SB0053	1116488	926012	1.0	3.0	2.0		0	0	0	5.3	0	1	4.3	94.7	72.9	21.8	40.6	32.8	7.8	2.63		61.4
S350	SB0054	1116488	926012	3.0	6.6	4.8		0	0	0	12	0.3	1.2	10.5	88	77.7	10.3	32.2	28.3	3.9	2.56		64.4
S350	SB0067	1116488	926012	3.0	6.6	4.8		0	0	0	11.5	0	1	10.5	88.5	70	18.5	34.1	30.2	3.9	2.55		65
S351	SF0173	1116245	926468	0.0	0.1	0.0		0	0	0	12.4	1.7	0.5	10.2	87.6	65	22.6	38	35	3	2.49		61.8
S351	SF0149	1116245	926468	0.0	0.5	0.2		21.7	0	21.7	34.6	6	11.6	17	43.7	33.0	10.7		Non-Plastic			2.45	64
S351	SF0150	1116245	926468	0.5	1.0	0.7		32.6	NA	NA	50.2	NA	NA	NA	17.2	12.6	4.6		Non-Plastic			2.52	68.2
S351	SB0055	1116245	926468	1.0	3.3	2.1		13.6	0	13.6	22.4	14.1	1.1	7.2	64	57	7	26.5	26.4	0.1	2.54		64.6
S351	SB0056	1116245	926468	3.3	6.6	4.9		0	0	0	28.6	0	17.9	10.7	71.4	60.2	11.2	34.4	31.1	3.3	2.5		63.1
S351	CT0010	1116245	926468	5.9	5.9	5.9	76.3	0.2	0	0.2	49.5	0.4	8.5	40.6	50.3	48.3	2					2.46	23
Average							148.5	1.4	0.4	0.7	14.4	1.3	3.4	8.2	84.2	64.0	20.1	60	40	20	2.54	7.4	58.5
Maximum						6.3	242.2	36.0	35.1	21.7	78.0	14.1	21.6	40.6	99.7	98.9	44.0	161	88	112	2.75	15.7	83.0
Minimum							19.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	17.2	12.6	0.0	26	25	0	2.02	2.9	23.0
Standard Deviation (σ)							47.5	5.3	3.3	2.7	16.4	2.9	4.7	8.6	18.3	16.2	10.1	32	12	23	0.10	3.9	9.7
Number of Samples							114	126	124	124	126	117	117	117	126	125	125	105	105	105	96	16	83
Average+1.96σ							241.6	11.7	7.0	6.0	46.4	7.0	12.7	25.1	120.0	95.7	39.9	122	64	65	2.73	14.9	77.5
Average-1.96σ							55.4	-9.0	-6.1	-4.5	-17.7	-4.4	-6.0	-8.7	48.4	32.2	0.4	-2	16	-25	2.35	-0.2	39.5

**Note:**

1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.
2. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
3. Negative values from Average-1.96σ calculations do not have practical meaning

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

### Remediation Area E - SMUs 6 and 7 Index Test Results Summary (Top 1m within Dredging Zone, Non-ILWD)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %						
OL-SB-60007-VC	OL-0023-01	1119195	928698	0.0	3.3	1.7	32	0.2	0	0.2	65.5	2	8	55.5	34.3	29	5.3		Non-Plastic		2.67	0.7	
OL-SB-60013-VC	OL-0020-01	1117305	928031	0.0	3.3	1.7	47	0.4	0	0.4	49.7	0	1.7	48	49.9	42.7	7.2		Non-Plastic		2.63	1.2	
OL-STA-60016-SB	OL-0071-44	1120195	928826	2.0	4.0	3.0	75																
OL-STA-60017-SB	OL-0009-05	1120228	928663	2.0	4.0	3.0	85	0	0	0	43	0	4	39	57	42.5	14.5		Non-Plastic		2.60	2.4	
OL-STA-60019-SB	OL-0009-09	1118229	928296	2.0	4.0	3.0																	
OL-STA-60098	OL-0338-01	1117362	927889	0.0	3.2	1.6	52.3	3	0	3	70.5	6	25	39	26.5	14	12.4		Non-Plastic		2.61	2.8	
OL-VC-60059	OL-0283-04	1121126	927881	0	3.3	1.65	96.8	0	0	0	37.2	1.2	4	32	62.8	46.8	16	49	40	9	2.67		
OL-VC-60067	OL-0274-03	1120674	928359	0.0	3.3	1.7	91.6																
OL-VC-60068	OL-0283-09	1119471	928330	0.0	3.3	1.7	50.4	0.5	0	0.5	71.7	3.7	15	53	27.8	18.8	9	36	27	9			
OL-VC-60069	OL-0283-12	1118853	928238	0.0	3.3	1.7	39.8	0	0	0	87.1	0	4	83.1	12.9	7.9	5						
OL-VC-60070	OL-0282-13	1117648	927621	0.0	3.3	1.7	80.4	0.1	0	0.1	58.2	1.2	6	51	41.7	33.7	8						
OL-VC-60195	OL-0642-01	1120427	928400	0	1	0.5																2.63	
OL-VC-60195	OL-0642-02	1120427	928400	1	2	1.5																2.57	
OL-VC-60195	OL-0642-03	1120427	928400	2	3	2.5																2.71	
OL-VC-60200	OL-0600-01	1118702	928540	0	1	0.5																2.70	
OL-VC-60200	OL-0600-02	1118702	928540	1	2	1.5																2.68	
OL-VC-60200	OL-0600-03	1118702	928540	2	3	2.5																2.69	
OL-VC-60200	OL-0600-04	1118702	928540	3	4	3.5																2.70	
OL-VC-60201	OL-0600-07	1118495	928281	0	1	0.5																2.70	
OL-VC-60201	OL-0600-08	1118495	928281	1	2	1.5																2.70	
OL-VC-60201	OL-0600-09	1118495	928281	2	3	2.5																2.68	
OL-VC-60201	OL-0600-10	1118495	928281	3	4	3.5																2.70	
OL-VC-60202	OL-0600-15	1118347	928418	0	1	0.5																2.67	
OL-VC-60202	OL-0600-16	1118347	928418	1	2	1.5																2.68	
OL-VC-60202	OL-0600-17	1118347	928418	2	3	2.5																2.69	
OL-VC-60202	OL-0600-18	1118347	928418	3	4	3.5																2.70	
OL-STA-60100	OL-0338-02	1119575	928597	0.0	3.3	1.7	66.6	0	0	0	41.2	1	2	38	58.8	48	11.3	53	34	19	2.60	2.7	
OL-SB-70002-VC	OL-0032-01	1116473	927021	0.0	3.3	1.7	77	0.1	0	0	62.4	0	15	47.4	37.5	30.2	7.3		Non-Plastic		2.67	2.4	
OL-SB-70003-VC	OL-0026-05	1116492	927305	0.0	3.3	1.7	63	0	0	0	35.6	0	2	34	64.4	49.9	14.5		Non-Plastic		2.70	1.3	
OL-STA-70005-SB	OL-0028-01	1116458	926838	0.0	2.0	1.0	67	0	0	0	20.4	1	3	16	79.6	60	19	54	36	18	2.50	12.2	
OL-STA-70006-SB	OL-0112-04	1116573	926791	2	4	3	61.1	0.3	0	0.3	26.2	0.8	2.8	22.6	73.5	47.4	26.1	58	33	25	2.52		
OL-SB-70012-SS	OL-0100-31	1116663	926520	0.0	0.5	0.3	94												Non-Plastic				
OL-SB-70013-SS	OL-0100-32	1116727	926908	0.0	0.5	0.3	123											59	34	25			
OL-STA-70015-SS	OL-0100-35	1116570	926452	0.0	0.5	0.3	146											69	43	26			
OL-VC-70024	OL-0235-02	1116858	926641	0.0	3.3	1.7	133.9																
OL-VC-70025	OL-0290-19	1116331	926720	0.0	3.3	1.7	81.8																
OL-VC-70026	OL-0291-01	1116387	926928	0.0	3.3	1.7	64.2																
OL-VC-70027	OL-0291-04	1116246	926946	0.0	3.3	1.7	61.7																
OL-VC-70028	OL-0289-03	1116368	927229	0.0	3.3	1.7	50.8	0	0	0	65.8	1.8	10	54	34.2	26.2	8						
OL-VC-70029	OL-0291-09	1116560	927423	0.0	3.3	1.7	66																
OL-VC-70030	OL-0288-16	1116809	927658	0.0	3.3	1.7	84.8	1.2	0	1	37.3	2.3	10	25	61.5	40.5	21.0	50	36	14			
OL-VC-70112	OL-0597-11	1116565	926681	0.0	1.0	0.5																2.44	
OL-VC-70112	OL-0597-12	1116565	926681	1.0	2.0	1.5																2.54	
OL-VC-70112	OL-0597-13	1116565	926681	2.0	3.0	2.5																2.61	
OL-VC-70112	OL-0597-14	1116565	926681	3.0	4.0	3.5																2.60	
OL-VC-70113	OL-0598-12	1116658	926915	0	1	0.5																2.53	
OL-VC-70113	OL-0598-13	1116658	926915	1	2	1.5																2.63	
OL-VC-70113	OL-0598-14	1116658	926915	2	3	2.5																2.67	
OL-VC-70113	OL-0598-15	1116658	926915	3	4	3.5																2.69	
OL-VC-70114	OL-0599-10	1116813	927141	0	1	0.5																2.62	
OL-VC-70114	OL-0599-11	1116813	927141	1	2	1.5																2.67	
OL-VC-70114	OL-0599-12	1116813	927141	2	3	2.5																2.68	
OL-VC-70114	OL-0599-13	1116813	927141	3	4	3.5																2.69	
OL-VC-70115	OL-0599-01	1116954	927417	0	1	0.5																2.66	
OL-VC-70115	OL-0599-02	1116954	927417	1	2	1.5																2.68	
OL-VC-70115	OL-0599-03	1116954	927417	2	3	2.5																2.70	
OL-VC-70115	OL-0599-04	1116954	927417	3	4	3.5																2.69	
OL-S1	S00556	1116419	926536	0.0	0.1	0.0	37.4	38.5	NA	NA	52.1	NA	NA	NA	9.4	8.7	0.7						
OL-S1	S00557	1116419	926536	0.0	0.1	0.0	39.7	39.5	NA	NA	49.3	NA	NA	NA	11.2	10.2	1						
OL-S1	S00558	1116419	926536	0.0	0.1	0.0	46.2	46.2	NA	NA	40.9	NA	NA	NA	12.9	11.8	1.1						
OL-S2	S00546	1116760	926601	0.0	0.1	0.0	52.5	52.7	NA	NA	30	NA	NA	NA	17.3	14.9	2.4						
OL-S3	S00613	1116801	926609	0.0	0.1	0.0	53	53.2	NA	NA	28.8	NA	NA	NA	18	15	3						

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES Remediation Area E - SMUs 6 and 7 Index Test Results Summary (Top 1m within Dredging Zone, Non-ILWD)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand				Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %	Percent Clay %						
OL-S5	S00547	1116893	927107	0.0	0.1	0.0	53.9	54.7	NA	NA	22.2	NA	NA	NA	23.1	19.3	3.8						
OL-S6	S00582	1117218	927545	0.0	0.1	0.0	28.9	28.3	NA	NA	70.8	NA	NA	NA	0.9	0.3	0.6						
OL-S7	S00555	1117251	927378	0.0	0.1	0.0	31.4	31	NA	NA	66.1	NA	NA	NA	2.9	1.9	1						
P1	S00014	1116419	926536	0.0	1.0	0.5	45.4	43.6	NA	NA	35.3	NA	NA	NA	21.1	19.3	1.8						
P1	S00015	1116419	926536	1.0	2.0	1.5	50.7	51.4	NA	NA	3	NA	NA	NA	45.6	42.6	3						
P1	S00016	1116419	926536	2.0	3.0	2.5	47.5	48.3	NA	NA	4.2	NA	NA	NA	47.5	43	4.5						
P11	S00162	1118691	927781	0.0	1.0	0.5	60.1	59.8	NA	NA	11.8	NA	NA	NA	28.4	25.6	2.8						
P11	S00163	1118691	927781	1.0	2.0	1.5	54.2	59.3	NA	NA	4.1	NA	NA	NA	36.6	30.7	5.9						
P11	S00164	1118691	927781	2.0	3.0	2.5	53.4	55.9	NA	NA	5.6	NA	NA	NA	38.5	31.1	7.4						
P16	S00062	1120323	928588	0.0	1.0	0.5	54.2	54	NA	NA	17.8	NA	NA	NA	28.2	23	5.2						
P16	S00065	1120323	928588	0.0	1.0	0.5	52.1	47.8	NA	NA	22.8	NA	NA	NA	29.4	23.6	5.8						
P16	S00066	1120323	928588	0.0	1.0	0.5	48.7	41.5	NA	NA	29.4	NA	NA	NA	29.1	23.6	5.5						
P16	S00063	1120323	928588	1.0	2.0	1.5	49.5	62	NA	NA	6.8	NA	NA	NA	31.2	22	9.2						
P16	S00064	1120323	928588	2.0	3.0	2.5	49.4	50.8	NA	NA	10.7	NA	NA	NA	38.5	33.8	4.7						
P3	S00340	1116857	926636	0.0	1.0	0.5	55.4	54.8	NA	NA	20.3	NA	NA	NA	24.9	22.7	2.2						
P3	S00341	1116857	926636	1.0	2.0	1.5	51.5	53.3	NA	NA	17.9	NA	NA	NA	28.8	26.5	2.3						
P3	S00342	1116857	926636	2.0	3.0	2.5	51.5	54	NA	NA	4.7	NA	NA	NA	41.3	36.9	4.4						
P3	S00343	1116857	926636	3.0	3.9	3.4	48.9	50.8	NA	NA	3.1	NA	NA	NA	46.1	42.2	3.9						
S10	S00572	1118187	928281	0.0	0.1	0.0	39.8	39.3	NA	NA	52.2	NA	NA	NA	8.5	7.1	1.4						
S11	S00567	1117954	927958	0.0	0.1	0.0	31.2	29.5	NA	NA	67.7	NA	NA	NA	2.8	2	0.8						
S13	S00565	1119850	928512	0.0	0.1	0.0	50.4	51.8	NA	NA	17.5	NA	NA	NA	30.7	24.1	6.6						
S313	VC0187	1116312	926501	0.0	0.5	0.2		0	0	0	50	NA	NA	NA	50	41	9						
S313	VC0188	1116312	926501	0.5	1.0	0.7		0	0	0	71	NA	NA	NA	29	22	7						
S313	VC0097	1116312	926501	1.0	3.3	2.1		0	0	0	2	NA	NA	NA	98	91	7						
S313	VC0194	1116312	926501	1.0	3.3	2.1		0	0	0	2	NA	NA	NA	98	91	7						
S314	SF0072	1116583	926449	0.0	0.5	0.2		0.2	0.1	0	20.1	0.5	2.1	17.5	79.7	58.4	21.3		Non-Plastic		2.35		56.5
S314	SF0073	1116583	926449	0.5	1.0	0.7		0	0	0	4.5	0	0.2	4.3	95.5	64.8	30.7	33.8	31.6	2.2	2.42		56.5
S314	VC0105	1116583	926449	1.0	3.3	2.1		0	0	0	3	0	0.4	2.6	97	65.3	31.7	37.2	30	7.2	2.50		56.7
S314	VC0200	1116583	926449	1.0	3.3	2.1		0	0	0	1.4	0	0.5	0.9	98.6	48.9	49.7	38.5	29.8	8.7	2.61		56.2
S316	SF0076	1117543	927405	0.0	0.5	0.2		0	0	0	91	NA	NA	NA	9	5	4						
S316	SF0077	1117543	927405	0.5	1.0	0.7		0	0	0	93	NA	NA	NA	7	5	2						
S316	VC0121	1117543	927405	1.0	3.3	2.2		0	0	0	87	NA	NA	NA	13	10	3						
S318	VC0189	1118023	928074	0.0	0.5	0.2		0	0	0	91	NA	NA	NA	9	8	1						
S318	VC0190	1118023	928074	0.5	1.0	0.7		0	0	0	92	NA	NA	NA	8	6	2						
S318	VC0137	1118023	928074	1.0	3.3	2.1		0	0	0	91	NA	NA	NA	9	6	3						
S321	SF0086	1118749	928457	0.0	0.5	0.2		0	0	0	93	NA	NA	NA	7	3	4						
S321	SF0087	1118749	928457	0.5	1.0	0.7		0	0	0	92	NA	NA	NA	8	5	3						
S321	VC0161	1118749	928457	1.0	3.3	2.1		0	0	0	83	NA	NA	NA	17	15	2						
S322	SF0088	1120176	928436	0.0	0.5	0.2		0	0	0	19	NA	NA	NA	81	81	0						
S322	SF0089	1120176	928436	0.5	1.0	0.7		0	0	0	8	NA	NA	NA	92	69	23						
S322	VC0169	1120176	928436	1.0	3.3	2.1		0	0	0	30	NA	NA	NA	70	52	18						
S352	SF0151	1116216	926825	0.0	0.5	0.2		1.1	0	1	39	2.4	9.3	27.3	59.9	44.1	15.8		Non-Plastic		2.50		67.9
S352	SF0152	1116216	926825	0.5	1.0	0.7		0.0	0	0	2.2	0.2	0.4	1.6	97.8	71.4	26.4	29.7	27.7	2	2.57		63.2
S352	SB0057	1116216	926825	1.0	3.3	2.1		0	0	0	26.5	0	1.1	25.4	73.5	66.2	7.3	26.1	24.1	2	2.59		67.9
S353	SF0113	1116583	927268	0.0	0.5	0.2		0	0	0	92	NA	NA	NA	8	5	3						
S353	SF0114	1116583	927268	0.5	1.0	0.7		0	0	0	90	NA	NA	NA	10	7	3						
S353	SB0021	1116583	927268	1.0	3.3	2.1		0	0	0	72	NA	NA	NA	28	22	6						
Average							61.3	18.8	0.0	0.2	42.0	1.1	5.8	32.6	39.2	30.8	8.4	46	33	13	2.63	3.2	60.7
Maximum						3.5	146.0	62.0	0.1	3.0	93.0	6.0	25.0	83.1	98.6	91.0	49.7	69	43	26	2.71	12.2	67.9
Minimum							28.9	0.0	0.0	0.0	1.4	0.0	0.2	0.9	0.9	0.3	0.0	26	24	2	2.35	0.7	56.2
Standard Deviation (σ)							24.6	24.2	0.0	0.5	31.0	1.5	6.2	21.0	29.0	22.8	9.2	13	5	9	0.08	3.7	5.5
Number of Samples							51	67	41	41	67	22	22	22	67	67	67	13	13	13	48	8	7
Average+1.96σ							109.6	66.3	0.0	1.2	102.8	4.0	18.0	73.8	96.1	75.5	26.5	71	43	30	2.79	10.5	71.5
Average-1.96σ							13.1	-28.7	0.0	-0.9	-18.9	-1.8	-6.5	-8.6	-17.6	-13.9	-9.6	20	22	-5	2.46	-4.1	49.9

- Notes:**
1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.
  2. The Average, Minimum, Maximum and Standard Deviation are calculated based on the number of samples available for each category.
  3. Negative values from Average-1.96σ calculations do not have practical meaning.
  4. OL-STA-60019-SB, OL-0009-09, 2-4 ft (RA-E) is not included in the calculations because it has 5.6% of fines and is not divided into percent of silt and clay.

## APPENDIX A LAKE SEDIMENT PHYSICAL CHARACTERISTICS & GEOTECHNICAL PROPERTIES

Remediation Area F - SMU 5 Index Test Results Summary (Top 2m within Dredging Zone)

Location	Field Sample ID	Northing ft	Easting ft	Start Depth ft	End Depth ft	Average Depth ft	Water Content %	Gravel			Sand			Fines			Liquid Limit %	Plastic Limit %	Plasticity Index %	Solids Specific Gravity	Organic Content %	Carbonate Alkalinity %
								Percent Gravel %	Percent Coarse Gravel (19mm-75mm) %	Percent Fine Gravel (4.75mm-19mm) %	Percent Sand %	Percent Coarse Sand (2mm-4.75mm) %	Percent Medium Sand (0.425mm-2mm) %	Percent Fine Sand (0.075mm-0.425mm) %	Percent Fines (Silt and Clay) %	Percent Silt %						
S95	S00607	1128240	913243	0.0	0.1	0.0	51.8	51.3	NA	NA	45.7	NA	NA	NA	3	2	1					
S111	S00575	1133033	910699	0.0	0.1	0.0	52.1	52	NA	NA	45.3	NA	NA	NA	2.7	1.8	0.9					

**Notes:**

1. NA indicated that the full grain-size distribution curve is not available; therefore the coarse versus fine fractions of the gravel and sand are not available.