
APPENDIX F

Benthic Macroinvertebrate Community Survey

BENTHIC COMMUNITY SURVEY RESULTS

ENHANCED NATURAL RECOVERY/ACTIVATED CARBON PILOT STUDY LOWER DUWAMISH WATERWAY, SEATTLE WA

Prepared for:

Wood Group
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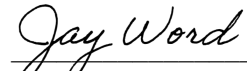
EcoAnalysts, Inc.
4770 NE View Drive
PO Box 216
Port Gamble, Washington 98364

Report ID - PG1017.02

Submittal Date – March 2021

All results herein are consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and EcoAnalysts is not responsible for use of less than the complete report. The test results summarized in this report apply only to the sample(s) evaluated. This document is uncontrolled when printed or accessed from electronic distribution.

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QA Review:

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CONTENTS

1.	INTRODUCTION	5
2.	METHODS	5
2.1	Subtidal Plot Sample Collection	5
2.2	Scour Plot Sample Collection	5
2.3	Intertidal Plot Sample Collection	5
2.4	Sample Processing	9
2.5	Benthic Sample Sorting	9
2.6	Benthic Sample Infauna Taxonomy	9
2.6.1	Benthic Community Metrics	10
3.	RESULTS	11
3.1	Sampling Results	11
3.2	Sorting and Taxonomy Quality Assurance	12
3.3	Community Metric Results	12
4.	REFERENCES	14

TABLES

Table 1. Sample Collection Information.....	11
Table 2. Individual Sample Metric Results	13

FIGURES

Figure 1. Subtidal Plot – Sample Composite Grid	6
Figure 2. Scour Plot - Sample Composite Grid	7
Figure 3. Intertidal Plot - Sample Composite Grid	8

Attachments

- Attachment A: Chain-of-Custody Form
- Attachment B: Taxonomy Results
- Attachment C: Sorting and Taxonomy Quality Assurance Results

ACRONYMS AND ABBREVIATIONS

AC:	Activated Carbon
ENR:	Enhanced Natural Recovery
QAPP:	Quality Assurance Project Plan

1. INTRODUCTION

EcoAnalysts performed taxonomic identifications and calculated benthic community metrics on benthic macroinvertebrate samples collected in the Lower Duwamish Waterway (LDW) in Seattle, WA. This work was performed for the Wood Group PLC (Wood) on behalf of the Lower Duwamish Waterway Group as part of an Enhance Natural Recovery/Activated Carbon (ENR/AC) Pilot Study in the Lower Duwamish Waterway. The pilot study is investigating the effectiveness of ENR amended with AC in decreasing the bioavailability of polychlorinated biphenyls (PCBs) as compared to ENR alone. In addition, one pilot study objective is to assess the potential impacts of the activated carbon on the benthic communities. The ENR+AC treatments are compared against ENR treatments without the addition of AC in three different habitat types; subtidal, intertidal, and at an area where large vessels may cause scour due to prop disturbance. Both ENR and ENR+AC treatments were applied by placing a layer of each respective treatment material on top of sediments that had elevated baseline PCB levels.

The benthic survey results in this report document the benthic community conditions three years from initial placement of the treatment materials. Benthic community taxonomy results were summarized by determining the results of specific metrics (abundance and richness) as well as the results of specific indices (diversity, evenness, and dominance). The Quality Assurance Project Plan (QAPP) describes the benthic community study design, the data quality objective, and the methods for sample collection and processing (AMEC et al. 2016). The purpose of this report is to document the benthic community test results; the interpretations of these results are presented in the Year 3 Monitoring Report.

2. METHODS

An overview map of each plot is provided in the Figure 1 through Figure 3 which presents the station locations. The Chain of Custody forms are provided in Attachment A.

2.1 Subtidal Plot Sample Collection

Benthic samples from the subtidal plot were collected on September 28, 2020 following the method outlined in the ENR/AC Pilot project QAPP (Amec et al 2016) using a 20-cm-diameter “cookie cutter” collected from a 0.2 m² power grab.

Five benthic samples were collected from each subplot (ENR and ENR+AC) following the procedures described in the QAPP (Amec et al., 2016; Figure 1). Samples were processed following the method described in Section 2.4.

2.2 Scour Plot Sample Collection

Benthic samples from the scour plot were collected on September 25, 2020 by divers following the method outlined in the ENR/AC Pilot project QAPP (Amec et al 2016) using a 20-cm-diameter “cookie cutter”. Five benthic samples were collected from each subplot (ENR and ENR+AC) (Figure 2). Samples were processed following the method described in Section 2.4.

2.3 Intertidal Plot Sample Collection

Benthic samples collected from the intertidal plot were collected on September 17, 2020 by hand following the method outlined in the ENR/AC Pilot project QAPP (Amec et al 2016) using a “cookie cutter” (Figure 3). Samples were collected by hand using the 20-cm-diameter hand-operated “cookie cutters” by personnel that waded onto the plot at low tide. Samples were collected from locations with approximately 0.5 foot of water depth to increase the likelihood that epifauna would be present at the time of collection (Figure 3). Samples were processed following the method described in Section 2.4.

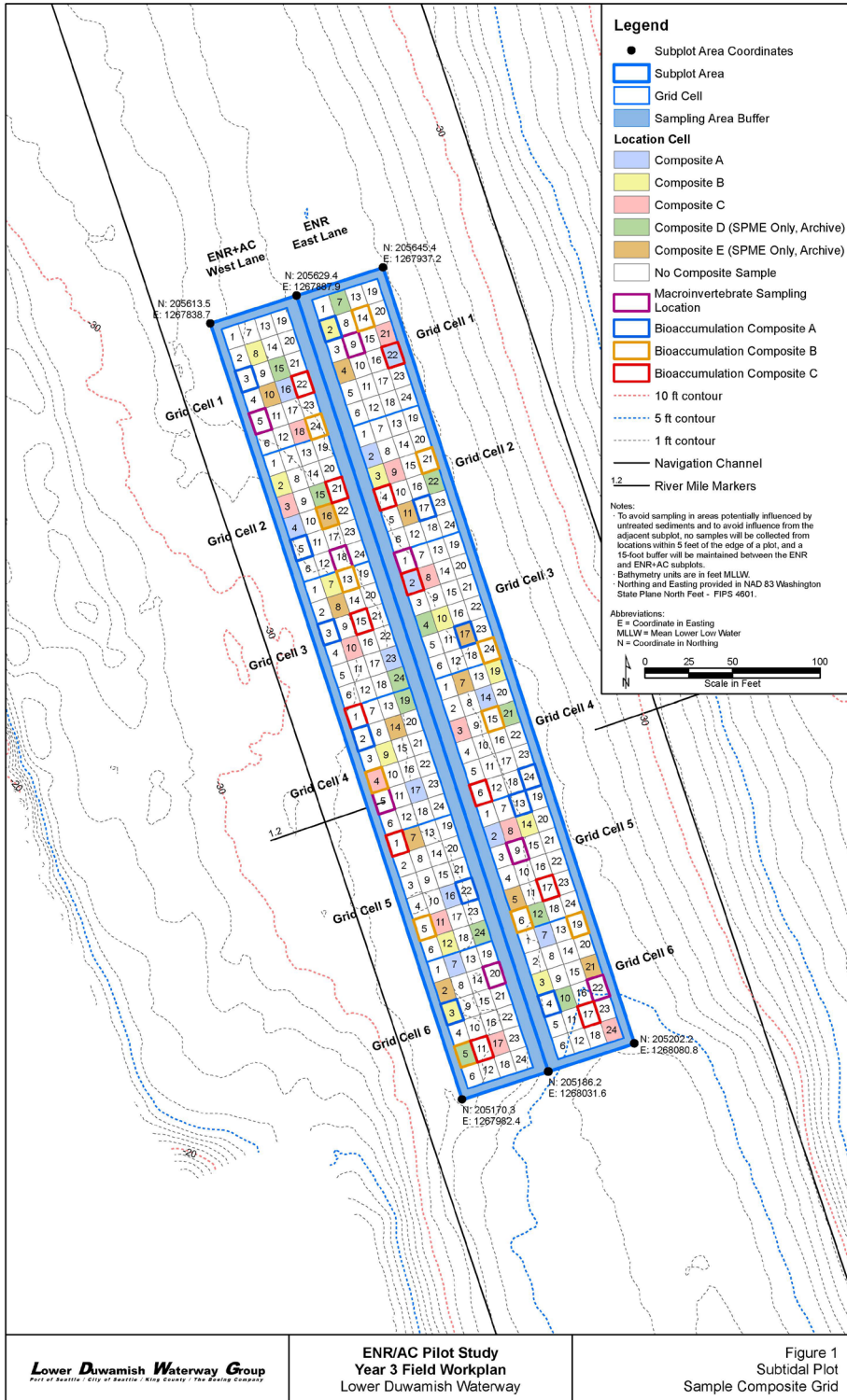


Figure 1. Subtidal Plot – Sample Composite Grid

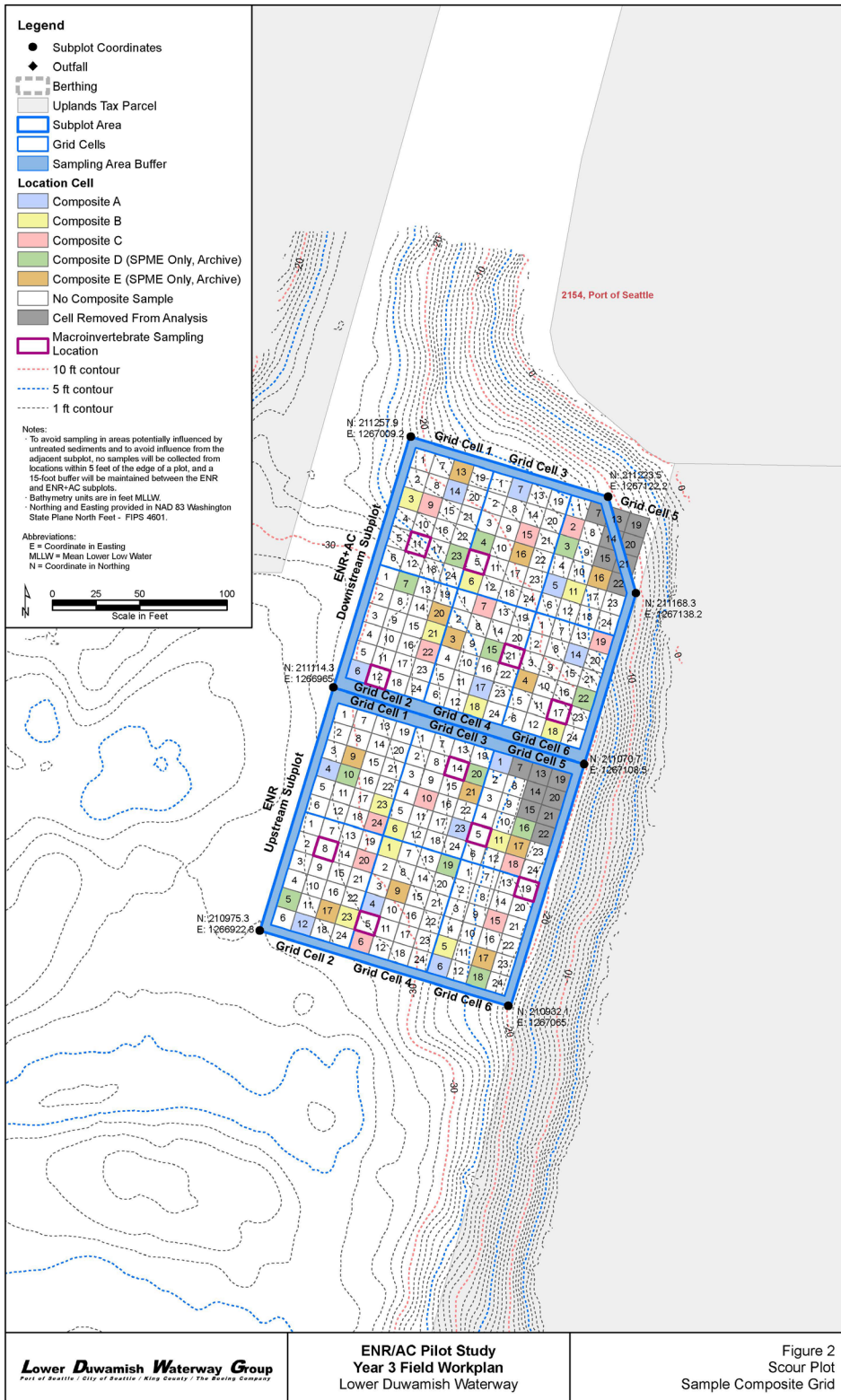


Figure 2. Scour Plot - Sample Composite Grid

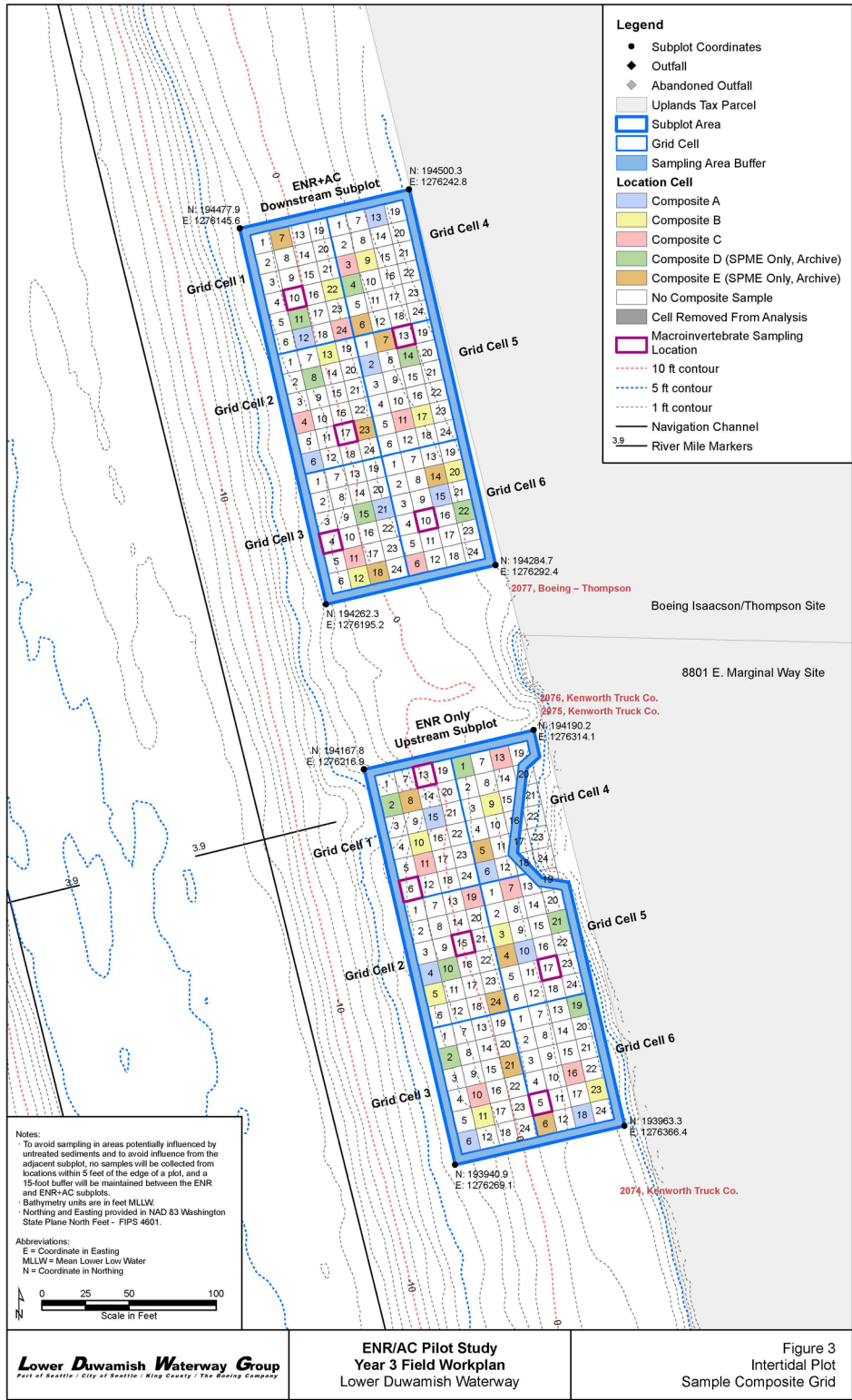


Figure 3. Intertidal Plot - Sample Composite Grid

2.4 Sample Processing

Upon collection, all benthic infauna samples were brought to the sampling vessel and processed according to the ENR/AC Pilot project QAPP (Amec et al., 2016). Each sample was initially wet-sieved through a 1.0-mm mesh screen to remove sediment fines. The wet sieving was performed using the integrated site water pump on the sampling vessel. A 0.5-mm mesh screen was affixed over the sprayer nozzle to ensure that no pelagic organisms would be introduced to the sample while wet sieving. Following the removal of the fine material, all residual material (coarse substrate, debris, shells, and benthic organisms) that remained on the sieve was carefully collected into labelled wide-mouth bottles. A mixture of site water and Epsom's salt (magnesium sulfate) was added to each sample to fill half of the sample container to help "relax" the specimen before preserving. This solution was allowed to sit in the samples for roughly 5 minutes before the addition of the preservative.

Samples were preserved by adding 10% buffered formalin to the remaining space within the sample container which ultimately resulted in a concentration of roughly 5% formalin preservative. The benthic samples were couriered at the end of the day to the EcoAnalysts Port Gamble Laboratory and stored at ambient temperature until they were transferred to another courier who transported them to the EcoAnalysts benthic laboratory in Moscow, ID.

2.5 Benthic Sample Sorting

Benthic samples arrived at the EcoAnalysts facility in Moscow, ID in good condition. All benthic samples were processed by EcoAnalysts using the Puget Sound Estuary Protocols for identification of benthic macroinvertebrates (PSEP 1987) and following the Pilot Study Quality Assurance Project Plan (QAPP; Amec et al. 2016).

Upon receipt, samples were transferred to 70% ethanol for long-term preservation and storage. The sorting process entailed placing small quantities of sample in a petri dish, removing all organisms under a dissecting microscope, and placing them into vials according to major taxon categories (e.g., mollusks, crustaceans, annelids, etc.). This process was continued until 100% of the sample was sorted.

Sorted material was then transferred back to the original sample container and each sample underwent a quality assurance (QA) check to control for thoroughness and consistency in sample sorting. The sorting QA was performed by a qualified technician who did not perform the initial sorting of the sample. A removal efficacy of 95% was required for the sample to pass the sorting QA check. Sample QA results are provided in Attachment C.

2.6 Benthic Sample Infauna Taxonomy

All specimens were identified by qualified taxonomists to the lowest practicable taxonomic level and enumerated. In most cases, the level of identification was genus or species level. Those organisms identified to a higher level due to a qualifier, such as specimen damage or immaturity, were aggregated into a more specific taxonomic level based on the taxonomist's notes. The aggregation step is important so that organisms that are assumed to be of a specific taxon but lack identifying morphological features due to damage or immaturity, are not counted as unique taxa. Counting these specimens as unique identifications would artificially inflate the richness of a sample. All taxonomy results are provided in Attachment B.

During the identification step, the taxonomist created a reference collection that consisted of representative specimen for each identification. This reference collection was sent to Biologica in Victoria, British Columbia for external review. Each referenced taxon was identified by Biologica taxonomists which was then compared to the original EcoAnalysts identification. Any inconsistency

between the identification of a taxon during this process was resolved by the taxonomists who made the identifications. All taxonomy QA results are presented in Attachment C.

2.6.1 Benthic Community Metrics

All indices were calculated on the taxonomy results from each individual samples. In addition to taxa richness (the number of unique taxa in a sample) and total abundance (the sum of organisms in a sample), three standard biodiversity measures were used to calculate benthic community diversity and evenness: the Shannon-Wiener Diversity Index, Pielou's Evenness Index and Swartz Dominance Index.

Shannon-Wiener Diversity Index

The Shannon-Wiener Diversity index is a quantitative measure of the biodiversity within a sample based on the number of different types of species (taxa) that occur. The result of this diversity index increases both when abundance and evenness increase. The measure is depicted as H' and is calculated based on the following formula:

$$H' = - \sum_{i=1}^R p_i \ln p_i$$

Where R is the richness of the data set in terms of total number of different taxa, \ln is the natural log, p_i is the proportion of individuals belonging to the i th species in the dataset.

Pielou's Evenness Index

Pielou's evenness is a measure of biodiversity that quantifies how equivalent the community is numerically. The evenness index (J') describes how close in abundance each species is within a given taxonomic group for a given sample. The evenness of a population can be represented by Pielou's evenness index:

$$J' = \frac{H'}{\log_e S}$$

Where \log_e is the log base e, S is abundance of organisms and H' is Shannon-Wiener diversity. J' is constrained between 0 and 1, with more evenly distributed communities having higher J' values.

Swartz Dominance Index

The Swartz Dominance index result is a count of the number of taxa required to represent greater than 75% of the total sample abundance. This index is calculated by determining each taxa's percent contribution to the sample abundance and summing them in order (largest contribution percentage to smallest) until one taxon contributes enough to the cumulative percent so that it is greater than 75%.

3. RESULTS

The analysis of community condition and results from the benthic community metrics are presented in the following sections.

3.1 Sampling Results

Table 1 provides the collection time and date for each benthic sample.

Table 1. Sample Collection Information

	Subplot	Sample ID	Station	Collection Date	Collection Time
Subtidal Plot (SU)	ENR	LDW-Y3_SU-ENR-MI-A-MACRO	181	9/28/2020	0955
		LDW-Y3_SU-ENR-MI-B-MACRO	182	9/28/2020	1010
		LDW-Y3_SU-ENR-MI-C-MACRO	183	9/28/2020	1020
		LDW-Y3_SU-ENR-MI-D-MACRO	184	9/28/2020	1036
		LDW-Y3_SU-ENR-MI-E-MACRO	185	9/28/2020	1040
	ENR + AC	LDW-Y3_SU-ENR+AC-MI-A-MACRO	186	9/28/2020	1050
		LDW-Y3_SU-ENR+AC-MI-B-MACRO	187	9/28/2020	1058
		LDW-Y3_SU-ENR+AC-MI-C-MACRO	188	9/28/2020	1110
		LDW-Y3_SU-ENR+AC-MI-D-MACRO	189	9/28/2020	1115
		LDW-Y3_SU-ENR+AC-MI-E-MACRO	190	9/28/2020	1120
Scour Plot (SC)	ENR	LDW-Y3_SC-ENR-MI-A-MACRO	191	9/25/2020	0930
		LDW-Y3_SC-ENR-MI-B-MACRO	192	9/25/2020	0942
		LDW-Y3_SC-ENR-MI-C-MACRO	193	9/25/2020	0935
		LDW-Y3_SC-ENR-MI-D-MACRO	194	9/25/2020	0950
		LDW-Y3_SC-ENR-MI-E-MACRO	195	9/25/2020	0945
	ENR + AC	LDW-Y3_SC-ENR+AC-MI-A-MACRO	196	9/25/2020	1042
		LDW-Y3_SC-ENR+AC-MI-B-MACRO	197	9/25/2020	1035
		LDW-Y3_SC-ENR+AC-MI-C-MACRO	198	9/25/2020	1040
		LDW-Y3_SC-ENR+AC-MI-D-MACRO	199	9/25/2020	1057
		LDW-Y3_SC-ENR+AC-MI-E-MACRO	200	9/25/2020	1052
Intertidal Plot (IN)	ENR	LDW-Y3_IN-ENR-MI-A-MACRO	201	9/17/2020	1110
		LDW-Y3_IN-ENR-MI-B-MACRO	202	9/17/2020	1100
		LDW-Y3_IN-ENR-MI-C-MACRO	203	9/17/2020	1045
		LDW-Y3_IN-ENR-MI-D-MACRO	204	9/17/2020	1610
		LDW-Y3_IN-ENR-MI-E-MACRO	205	9/17/2020	1023
	ENR + AC	LDW-Y3_IN-ENR+AC-MI-A-MACRO	206	9/17/2020	1055

	Subplot	Sample ID	Station	Collection Date	Collection Time
		LDW-Y3_IN-ENR+AC-MI-B-MACRO	207	9/17/2020	1014
		LDW-Y3_IN-ENR+AC-MI-C-MACRO	208	9/17/2020	1115
		LDW-Y3_IN-ENR+AC-MI-D-MACRO	209	9/17/2020	1000
		LDW-Y3_IN-ENR+AC-MI-E-MACRO	210	9/17/2020	1030

3.2 Sorting and Taxonomy Quality Assurance

All but two samples did not meet the initial removal efficacy of 95%, Station 199 (91%) and Station 210 (86%). These samples were returned to the original sorter for a resort of the material. Both samples passed a second sorting efficacy assessment. Sorting QA sheets are provided in Attachment C.

3.3 Community Metric Results

The total abundance of organisms, taxa richness, and community composition indices were calculated for each sample (Table 2).

Table 2. Individual Sample Metric Results

	Subplot	Station	Abundance (# of indiv. /0.03 m ²)	Richness (# of taxa /0.03 m ²)	Shannon- Wiener Diversity	Pielou's Evenness	Swartz Dominance
Subtidal Plot (SU)	ENR	181	56	17	2.56	0.90	8
		182	75	14	2.39	0.91	8
		183	53	14	2.29	0.87	7
		184	15	11	2.30	0.96	9
		185	16	7	1.81	0.93	5
	ENR + AC	186	294	24	1.95	0.61	4
		187	278	28	2.32	0.70	6
		188	264	28	2.30	0.69	6
		189	109	19	2.10	0.71	6
		190	7	5	1.48	0.92	4
Scour Plot (SC)	ENR	191	149	26	2.67	0.82	9
		192	204	32	2.60	0.75	9
		193	169	37	3.07	0.85	15
		194	240	35	2.85	0.80	11
		195	185	39	2.82	0.77	12
	ENR + AC	196	166	28	2.34	0.70	7
		197	127	26	2.08	0.64	5
		198	71	16	2.40	0.87	7
		199	299	42	2.43	0.65	9
		200	229	29	2.36	0.70	8
Intertidal Plot (IN)	ENR	201	357	8	1.05	0.50	2
		202	336	10	1.13	0.49	2
		203	135	6	1.10	0.61	2
		204	47	9	1.46	0.66	3
		205	4	2	0.69	1.00	2
	ENR + AC	206	421	10	0.93	0.41	2
		207	54	8	1.48	0.71	3
		208	491	10	1.03	0.45	2
		209	12	7	1.86	0.96	4
		210	33	7	1.46	0.75	3

4. REFERENCES

- Amec Foster Wheeler Environment & Infrastructure, Inc., Dalton, Olmsted & Fuglevand, Inc., Ramboll Environ, Floyd|Snider, and Geosyntec Consultants (Amec Foster Wheeler et al.), 2016. *Quality Assurance Project Plan*. Appendix E, AMEC Foster Wheeler Environment & Infrastructure, Inc. Dalton, Olmsted & Fuglevand, Inc., Ramboll Environ, Floyd Snider, Geosyntec Consultants.
- PSEP. 1987. "Recommended Protocols for Sampling and Analyzing Subtidal Benthic Macroinvertebrate Assemblages in Puget Sound."
- Wood Environment & Infrastructure Solutions, Inc., Integral Consulting Inc., Ramboll, and Geosyntec Consultants. 2020. *ENR/AC Pilot Field Work Plan, Enhanced Natural Recovery/Activated Carbon Pilot Study, Lower Duwamish Waterway, Year 3*. Wood Environmental & Infrastructure Solutions, Inc., Integral Consulting, Inc., Ramboll, Geosyntec Consultants, Seattle, WA: Lower Duwamish Waterway Group. Accessed July.

ATTACHMENT A
CHAIN-OF-CUSTODY FORM

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here
 or Write ID Number Here

[Handwritten ID: 111]

Intertidal Year 3 STN: 201

LDW-Y3-IN-ENR-MI-A-MACRO

COC Form

Date: 9/17/2020 Time: 11:10

Intertidal Year 3 STN: 202

LDW-Y3-IN-ENR-MI-B-MACRO

COC Form

Date: 9/17/2020 Time: 11:00

Place Sample ID Label Here
 or Write ID Number Here

STN. 203
 LDW-Y3-IN-ENR-MI-C-MACRO

Intertidal Year 3 STN: 204

LDW-Y3-IN-ENR-MI-D-MACRO

COC Form

Date: 9/16/2020 Time: 16:10

Intertidal Year 3 STN: 205

LDW-Y3-IN-ENR-MI-E-MACRO

COC Form

Date: 9/17/2020 Time: 10:23

Intertidal Year 3 STN: 206

LDW-Y3-IN-ENR+AC-MI-A-MACRO

COC Form

Date: 9/17/2020 Time: 10:55

Intertidal Year 3 STN: 207

LDW-Y3-IN-ENR+AC-MI-B-MACRO

COC Form

Date: 9/17/2020 Time: 10:14

Analysis Containers

Analysis Containers	Number of containers
Macro	3
	4
9/17/20	3
10:45	4
	4
	4
	3

Recorded by: _____

Checked by: _____

Relinquished By	Received By
Name: <u>Michelle Knowlton</u>	Name: <u>Michelle Knowlton</u>
Date: <u>9/17/20</u>	Date: <u>9/17/20</u>
Time: <u>1300</u>	Time: <u>1300</u>

Relinquished by:
 name:
 date/time:

Received By
 name:
 date/time

pg 2 of 2

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here or Write ID Number Here []	Analysis Containers			Number of containers
Intertidal Year 3 STN: 208 LDW-Y3-IN-ENR+AC-MI-C-MACRO COC Form Date: <u>9/17</u> /2020 Time: <u>11:15</u>	Macro ↓			4
Intertidal Year 3 STN: 209 LDW-Y3-IN-ENR+AC-MI-D-MACRO COC Form Date: <u>9/17</u> /2020 Time: <u>10:00</u>				3
Intertidal Year 3 STN: 210 LDW-Y3-IN-ENR+AC-MI-E-MACRO COC Form Date: <u> </u> / <u> </u> /2020 Time: <u>10:30</u>				4
Place Sample ID Label Here or Write ID Number Here []				
Place Sample ID Label Here or Write ID Number Here []				
Place Sample ID Label Here or Write ID Number Here []				
Place Sample ID Label Here or Write ID Number Here []				

Recorded by: [Signature]
 Checked by: _____

Laboratory Sample Receipt

Relinquished By		Received By	
Name: <u>[Signature]</u>	Name: <u>[Signature]</u>		
Date: <u>9/17/20</u>	Date: <u>9/17/20</u>		
Time: <u>1300</u>	Time: <u>1300</u>		

pg 1 of 2

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here
 or Write ID Number Here

Scour Year 3 STN: 191
 LDW-Y3-SC-ENR-MI-A-MACRO

COC Form
 Date: 9/25/2020 Time: 9:30

Scour Year 3 STN: 192
 LDW-Y3-SC-ENR-MI-B-MACRO

COC Form
 Date: 9/25/2020 Time: 9:42

Scour Year 3 STN: 193
 LDW-Y3-SC-ENR-MI-C-MACRO

COC Form
 Date: 9/25/2020 Time: 9:35

Scour Year 3 STN: 194
 LDW-Y3-SC-ENR-MI-D-MACRO

COC Form
 Date: 9/25/2020 Time: 9:50

Scour Year 3 STN: 195
 LDW-Y3-SC-ENR-MI-E-MACRO

COC Form
 Date: 9/25/2020 Time: 9:45

Scour Year 3 STN: 196
 LDW-Y3-SC-ENR+AC-MI-A-MACRO

COC Form
 Date: 9/25/2020 Time: 10:42

Analysis Containers

Ben Nora			
1			Number of containers
			3
			Number of containers
			2
			Number of containers
			3
			Number of containers
		2	
		Number of containers	
		2	
		Number of containers	
		2 3	
		Number of containers	
		3	

Recorded by: _____
 Checked by: _____

Laboratory Sample Receipt

Relinquished By		Received By	
Name: <u>Ben Nora</u>	Name: <u>Samantha Heinicke</u>	Date: <u>9/25/20</u>	Date: <u>9/25/2020</u>
Time: <u>1400</u>	Time: <u>1355</u>		

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here or Write ID Number Here	Analysis Containers			Number of containers
	Bethal	Macro		
[] Scour Year 3 STN: 197 LDW-Y3-SC-ENR+AC-MI-B-MACRO COC Form Date: 9/25/2020 Time: 10:35 Scour Year 3 STN: 198 LDW-Y3-SC-ENR+AC-MI-C-MACRO COC Form Date: 9/25/2020 Time: 10:40 Scour Year 3 STN: 199 LDW-Y3-SC-ENR+AC-MI-D-MACRO COC Form Date: 9/25/2020 Time: 10:57 Scour Year 3 STN: 200 LDW-Y3-SC-ENR+AC-MI-E-MACRO COC Form Date: 9/25/2020 Time: 10:52	↓			3
[] Place Sample ID Label Here or Write ID Number Here				3
[] Place Sample ID Label Here or Write ID Number Here				1
[] Place Sample ID Label Here or Write ID Number Here				Number of containers
[] Place Sample ID Label Here or Write ID Number Here				Number of containers
[] Place Sample ID Label Here or Write ID Number Here				Number of containers

Recorded by: ZK
 Checked by: _____

Laboratory Sample Receipt

[]

Relinquished By		Received By	
Name: <u>Jayward</u>	Date: <u>9/25/20</u>	Name: <u>Samantha Heindel</u>	Date: <u>9/25/2020</u>
Time: <u>1400</u>		Time: <u>1355</u>	

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here
 or Write ID Number Here
SUBTIDAL Benthic I
 Subtidal Year 3 STN: 181
 LDW-Y3-SU-ENR-MI-A-MACRO

COC Form
 Date: 9/28 /2020 Time: 9:55
 Subtidal Year 3 STN: 182
 LDW-Y3-SU-ENR-MI-B-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:10
 Subtidal Year 3 STN: 183
 LDW-Y3-SU-ENR-MI-C-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:20
 Subtidal Year 3 STN: 184
 LDW-Y3-SU-ENR-MI-D-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:30
 Subtidal Year 3 STN: 185
 LDW-Y3-SU-ENR-MI-E-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:40
 Subtidal Year 3 STN: 186
 LDW-Y3-SU-ENR+AC-MI-A-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:50
 Subtidal Year 3 STN: 187
 LDW-Y3-SU-ENR+AC-MI-B-MACRO

COC Form
 Date: 9/28 /2020 Time: 10:50

Analysis Containers			
Benthic Macro-invertebr			
X			Number of containers 4
			Number of containers 3
			Number of containers 3
			Number of containers 4
			Number of containers 4
			Number of containers 1
			Number of containers 2

Recorded by: UC
 Checked by: _____

Laboratory Sample Receipt

Relinquished By		Received By	
Name: <u>[Signature]</u>	Name: <u>[Signature]</u>		
Date: <u>9/28/20</u>	Date: <u>9/28/20</u>		
Time: <u>1400</u>	Time: <u>1359</u>		

ATTACHMENT 12
 Enhanced Natural Recovery/Activated Carbon Pilot Study
 Lower Duwamish Waterway

Wood
 3500 188th St. SW, Suite 601
 Lynnwood, WA 98037
 Cliff Whitmus (425) 921-4023

GENERIC CHAIN OF CUSTODY

Place COC Number Label Here
 or Write ID Number Here

SUBTIDAL Benthic 2

Analysis Containers		
Benthic	Macro-invertebrate	

Recorded by: UK
 Checked by: _____

Subtidal Year 3 STN: 188

LDW-Y3-SU-ENR+AC-MI-C-MACRO
 COC Form
 Date: 9/28 2020 Time: 11:10
 Subtidal Year 3 STN: 189

X				Number of containers
				1

LDW-Y3-SU-ENR+AC-MI-D-MACRO
 COC Form
 Date: 9/28 2020 Time: 11:15
 Subtidal Year 3 STN: 190

				Number of containers
				1

LDW-Y3-SU-ENR+AC-MI-E-MACRO
 COC Form
 Date: 9/28 2020 Time: 11:20

				Number of containers
				1

Place Sample ID Label Here
 or Write ID Number Here

				Number of containers

Place Sample ID Label Here
 or Write ID Number Here

				Number of containers

Place Sample ID Label Here
 or Write ID Number Here

				Number of containers

Place Sample ID Label Here
 or Write ID Number Here

				Number of containers

Laboratory Sample Receipt

Relinquished By		Received By	
Name: <u>Jayland</u>	Name: <u>M. J. ...</u>	Date: <u>9/28/20</u>	Date: <u>9/28/20</u>
Time: <u>1400</u>	Time: <u>1359</u>		

ATTACHMENT B
METRIC CALCULATIONS

Wood LDWG Consulting Estuarine Infauna 2020

Metrics Report



	Station 181	182	183
Sample ID	LDW-Y3_SU-ENR-MI-A-MACRO	LDW-Y3_SU-ENR-MI-B-MACRO	LDW-Y3_SU-ENR-MI-C-MACRO
Collection Date	09-28-2020	09-28-2020	09-28-2020
Percent Subsampled	100.00	100.00	100.00
EcoAnalysts Sample ID	8135.1-1	8135.1-2	8135.1-3
Abundance Measures			
Abundance	56.00	75.00	53.00
Average Abundance (per Taxon)	3.11	5.00	3.31
Dominance Measures			
Dominant Taxon	Axinopsida serricata	Axinopsida serricata	Armandia brevis
Dominant Abundance	8.00	14.00	10.00
2nd Dominant Taxa	Scoletoma luti	Macoma sp.	Nutricola lordi
2nd Dominant Abundance	8.00	9.00	7.00
3rd Dominant Taxa	Cossura sp. A sensu Phillips 1987	Euchone incolor	Cirratulidae
3rd Dominant Abundance	6.00	7.00	6.00
% Dominant Taxon	14.29	18.67	18.87
% 2 Dominant Taxa	28.57	30.67	32.08
% 3 Dominant Taxa	39.29	40.00	43.40
Richness Measures			
Taxa Richness	17.00	14.00	14.00
EPT Richness	0.00	0.00	0.00
Ephemeroptera Richness	0.00	0.00	0.00
Plecoptera Richness	0.00	0.00	0.00
Trichoptera Richness	0.00	0.00	0.00
Chironomidae Richness	0.00	0.00	0.00
Oligochaeta Richness	0.00	0.00	0.00
Non-Chiro. Non-Olig. Richness	17.00	14.00	14.00
Rhyacophila Richness	0.00	0.00	0.00
Diversity/Evenness Measures			
Shannon-Weaver H' (log 10)	1.11	1.04	1.00
Shannon-Weaver H' (log 2)	3.69	3.45	3.31
Shannon-Weaver H' (log e)	2.56	2.39	2.29
Margalef's Richness	4.09	3.08	3.44
Pielou's J'	0.90	0.91	0.87
Simpson's Heterogeneity	0.92	0.90	0.89

184	185	186	187
LDW-Y3_SU-ENR-MI-D-MACRO	LDW-Y3_SU-ENR-MI-E-MACRO	LDW-Y3_SU-ENR+AC-MI-A-MACRO	LDW-Y3_SU-ENR+AC-MI-B-MACRO
09-28-2020	09-28-2020	09-28-2020	09-28-2020
100.00	100.00	100.00	100.00
8135.1-4	8135.1-5	8135.1-6	8135.1-7

15.00	16.00	294.00	278.00
1.25	2.00	11.76	8.69
Euchone limnicola	Euchone limnicola	Nutricola lordi	Macoma calcarea
3.00	4.00	115.00	84.00
Armandia brevis	Scoletoma luti	Macoma calcarea	Aphelochaeta glandaria Complex
2.00	3.00	77.00	35.00
Axinopsida serricata	Cirratulidae	Axinopsida serricata	Armandia brevis
1.00	2.00	19.00	32.00
20.00	25.00	39.12	30.22
33.33	43.75	65.31	42.81
40.00	56.25	71.77	54.32
11.00	7.00	24.00	28.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
11.00	7.00	24.00	28.00
0.00	0.00	0.00	0.00
1.00	0.79	0.84	1.01
3.32	2.61	2.81	3.34
2.30	1.81	1.95	2.32
3.79	2.27	4.06	4.86
0.96	0.93	0.61	0.70
0.96	0.88	0.76	0.84

188 LDW-Y3_SU-ENR+AC-MI-C-MACRO 09-28-2020 100.00 8135.1-8	189 LDW-Y3_SU-ENR+AC-MI-D-MACRO 09-28-2020 100.00 8135.1-9	190 LDW-Y3_SU-ENR+AC-MI-E-MACRO 09-28-2020 100.00 8135.1-10	191 LDW-Y3_SC-ENR-MI-A-MACRO 09-25-2020 100.00 8135.1-11
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264.00	109.00	7.00	149.00
8.25	4.95	1.40	4.97

Axinopsida serricata 61.00	Cossura sp. A sensu Phillips 1987 32.00	Macoma calcarea 3.00	Axinopsida serricata 22.00
Macoma calcarea 45.00	Aphelochaeta glandaria Complex 25.00	Artacama coniferi 1.00	Aphelochaeta glandaria Complex 20.00
Aphelochaeta glandaria Complex 25.00	Scoletoma luti 9.00	Euchone incolor 1.00	Cirratulidae 18.00
23.11	29.36	42.86	14.77
40.15	52.29	57.14	28.19
49.62	60.55	71.43	40.27

28.00	19.00	5.00	26.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
28.00	19.00	5.00	26.00
0.00	0.00	0.00	0.00

1.00	0.91	0.64	1.16
3.32	3.03	2.13	3.85
2.30	2.10	1.48	2.67
4.99	3.93	2.06	5.30
0.69	0.71	0.92	0.82
0.85	0.81	0.86	0.91

192 LDW-Y3_SC-ENR-MI-B-MACRO 09-25-2020 100.00 8135.1-12	193 LDW-Y3_SC-ENR-MI-C-MACRO 09-25-2020 100.00 8135.1-13	194 LDW-Y3_SC-ENR-MI-D-MACRO 09-25-2020 100.00 8135.1-14	195 LDW-Y3_SC-ENR-MI-E-MACRO 09-25-2020 100.00 8135.1-15
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204.00 5.83	169.00 4.02	240.00 6.32	185.00 4.30
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Aphelochaeta glandaria Complex 42.00	Axinopsida serricata 28.00	Aphelochaeta glandaria Complex 46.00	Aphelochaeta glandaria Complex 48.00
Axinopsida serricata 39.00	Nutricola lordi 15.00	Axinopsida serricata 25.00	Axinopsida serricata 19.00
Scoletoma luti 19.00	Euphilomedes carcharodonta 12.00	Parvilucina tenuisculpta 21.00	Scoletoma luti 17.00
20.59	16.57	19.17	25.95
39.71	25.44	29.58	36.22
49.02	32.54	38.33	45.41

32.00	37.00	35.00	39.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
1.00	0.00	0.00	1.00
31.00	37.00	35.00	38.00
0.00	0.00	0.00	0.00

1.13	1.33	1.24	1.22
3.76	4.42	4.12	4.06
2.60	3.07	2.85	2.82
5.98	7.24	6.30	7.46
0.75	0.85	0.80	0.77
0.88	0.93	0.91	0.88

196 LDW-Y3_SC-ENR+AC-MI-A-MACRO 09-25-2020 100.00 8135.1-16	197 LDW-Y3_SC-ENR+AC-MI-B-MACRO 09-25-2020 100.00 8135.1-17	198 LDW-Y3_SC-ENR+AC-MI-C-MACRO 09-25-2020 100.00 8135.1-18	199 LDW-Y3_SC-ENR+AC-MI-D-MACRO 09-25-2020 100.00 8135.1-19
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166.00	127.00	71.00	299.00
5.53	4.54	4.18	6.64
Aphelochaeta glandaria Complex	Aphelochaeta glandaria Complex	Polycirrinae	Aphelochaeta glandaria Complex
56.00	53.00	12.00	123.00
Dipolydora caulleryi	Lumbrineridae	Aphelochaeta glandaria Complex	Euchone incolor
21.00	19.00	10.00	22.00
Cirratulidae	Cirratulidae	Platynereis bicanaliculata	Axinopsida serricata
16.00	11.00	10.00	19.00
33.73	41.73	16.90	41.14
46.39	56.69	30.99	48.49
56.02	65.35	45.07	54.85
28.00	26.00	16.00	42.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	1.00
0.00	0.00	0.00	1.00
28.00	26.00	16.00	40.00
0.00	0.00	0.00	0.00
1.01	0.90	1.04	1.06
3.37	3.00	3.47	3.51
2.34	2.08	2.40	2.43
5.42	5.36	3.54	7.29
0.70	0.64	0.87	0.65
0.82	0.73	0.90	0.79

200 LDW-Y3_SC-ENR+AC-MI-E-MACRO 09-25-2020 100.00 8135.1-20	201 LDW-Y3_IN-ENR-MI-A-MACRO 09-17-2020 100.00 8135.1-21	202 LDW-Y3_IN-ENR-MI-B-MACRO 09-17-2020 100.00 8135.1-22	203 LDW-Y3_IN-ENR-MI-C-MACRO 09-17-2020 100.00 8135.1-23
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229.00	357.00	336.00	135.00
7.16	44.62	33.60	22.50

Aphelochaeta glandaria Complex	Americorophium salmonis	Americorophium spinicorne	Neanthes limnicola
85.00	206.00	216.00	71.00
Scoletoma luti	Americorophium spinicorne	Neanthes limnicola	Americorophium spinicorne
25.00	111.00	75.00	48.00
Axinopsida serricata	Neanthes limnicola	Sinelobus stanfordi	Americorophium salmonis
23.00	28.00	15.00	9.00
37.12	57.70	64.29	52.59
48.03	88.80	86.61	88.15
58.08	96.64	91.07	94.81

29.00	8.00	10.00	6.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
29.00	8.00	10.00	6.00
0.00	0.00	0.00	0.00

1.03	0.45	0.49	0.48
3.41	1.51	1.63	1.58
2.36	1.05	1.13	1.10
5.20	1.19	1.55	1.02
0.70	0.50	0.49	0.61
0.82	0.57	0.53	0.60

204 LDW-Y3_IN-ENR-MI-D-MACRO 09-16-2020 100.00 8135.1-24	205 LDW-Y3_IN-ENR-MI-E-MACRO 09-17-2020 100.00 8135.1-25	206 LDW-Y3_IN-ENR+AC-MI-A-MACRO 09-17-2020 100.00 8135.1-26	207 LDW-Y3_IN-ENR+AC-MI-B-MACRO 09-17-2020 100.00 8135.1-27
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47.00	4.00	421.00	54.00
5.22	2.00	42.10	6.75

Americorophium spinicorne 28.00	Oligochaeta 2.00	Americorophium spinicorne 302.00	Sinelobus stanfordi 28.00
Grandidierella japonica 4.00	Sinelobus stanfordi 2.00	Neanthes limnicola 78.00	Neanthes limnicola 10.00
Neanthes limnicola 4.00	N/A 0.00	Sinelobus stanfordi 16.00	Americorophium spinicorne 6.00
59.57	50.00	71.73	51.85
68.09	100.00	90.26	70.37
76.60	100.00	94.06	81.48

9.00	2.00	10.00	8.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	1.00	1.00	1.00
9.00	1.00	9.00	7.00
0.00	0.00	0.00	0.00

0.63	0.30	0.41	0.64
2.11	1.00	1.35	2.14
1.46	0.69	0.93	1.48
2.08	0.72	1.49	1.75
0.66	1.00	0.41	0.71
0.63	0.67	0.45	0.69

208 LDW-Y3_IN-ENR+AC-MI-C-MACRO 09-17-2020 100.00 8135.1-28	209 LDW-Y3_IN-ENR+AC-MI-D-MACRO 09-17-2020 100.00 8135.1-29	210 LDW-Y3_IN-ENR+AC-MI-E-MACRO 09-17-2020 100.00 8135.1-30
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491.00	12.00	33.00
49.10	1.71	4.71

Americorophium spinicorne 340.00	Gnorimosphaeroma oregonensis 3.00	Sinelobus stanfordi 17.00
Neanthes limnicola 73.00	Diptera 2.00	Oligochaeta 6.00
Americorophium salmonis 49.00	Eogammarus confervicolus 2.00	Americorophium spinicorne 4.00
69.25	25.00	51.52
84.11	41.67	69.70
94.09	58.33	81.82

10.00	7.00	7.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
1.00	1.00	1.00
9.00	6.00	6.00
0.00	0.00	0.00

0.45	0.81	0.63
1.49	2.69	2.11
1.03	1.86	1.46
1.45	2.41	1.72
0.45	0.96	0.75
0.49	0.91	0.70

ATTACHMENT C
TAXA LIST AND ABUNDANCE DATA, TAXONOMY QC REPORT

Wood LDWG Consulting Estuarine Infauna 2020

Taxonomy Data



STATION	SAMPLE_ID	DATE_COL	SAMPTYPE	LAB_NAME	LAB_SAMPLE_ID	TAXONOMIST	LAB_TIN	TAXON_NAME	ABUNDANCE
Field Descriptor #1	Field Descriptor #2	Sample Collection	Benthic Sample	Name of Lab	Lab Sample	Taxonomist	Lab Taxa ID	Unique Taxon	Number of
		Date	Type	Processing Sample	ID Number	Name	Number	Name	Individuals
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	M. Hill	7263	Parvilucina tenuisculpta	2
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	M. Hill	7108	Macoma calcarea	4
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	M. Hill	6460	Axinopsida serricata	8
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	M. Hill	6524	Nutricola lordi	2
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	D. Drumm	5736	Protomedeia sp.	1
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	D. Drumm	6948	Eudorella pacifica	1
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	D. Drumm	10665	Leucon subnasica	2
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	7531	Barantolla americana	1
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	7562	Heteromastus filobranchus	1
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	6
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	6550	Armandia brevis	4
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	6111	Lumbrineridae	6
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	7598	Scoletoma luti	8
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	6151	Cirratulidae	4
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	7553	Cistenides granulata	1
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	10712	Euchone limnicola	2
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	6388	Dipolydora caulleryi	2
181	LDW-Y3_SU-ENR-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-1	C. Barrett	8011	Terebellides californica	1
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	M. Hill	7263	Parvilucina tenuisculpta	2
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	M. Hill	4046	Macoma sp.	9
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	M. Hill	6460	Axinopsida serricata	14
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	M. Hill	6524	Nutricola lordi	6
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	D. Drumm	5736	Protomedeia sp.	1
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	D. Drumm	10985	Kamptopleustes coquillus	2
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	7531	Barantolla americana	3
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	2
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	6550	Armandia brevis	3
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	6111	Lumbrineridae	7
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	7598	Scoletoma luti	7
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	6151	Cirratulidae	6
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	7553	Cistenides granulata	1
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	8339	Euchone incolor	7
182	LDW-Y3_SU-ENR-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-2	C. Barrett	10712	Euchone limnicola	5
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	6522	Lyonsia californica	1
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	7263	Parvilucina tenuisculpta	2
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	7108	Macoma calcarea	4
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	6460	Axinopsida serricata	3
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	6831	Compsomyax subdiaphana	1
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	M. Hill	6524	Nutricola lordi	7
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	D. Drumm	10200	Eochelidium sp.	1
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	6550	Armandia brevis	10
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	4189	Hesionidae	1
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	6111	Lumbrineridae	5
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	7598	Scoletoma luti	1

183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	6151	Cirratulidae	6
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	8339	Euchone incolor	1
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	10712	Euchone limnicola	5
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	8337	Euchone sp.	4
183	LDW-Y3_SU-ENR-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-3	C. Barrett	5838	Spiophanes bombyx Complex	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	M. Hill	6522	Lyonsia californica	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	M. Hill	4046	Macoma sp.	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	M. Hill	6460	Axinopsida serricata	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	M. Hill	6524	Nutricola lordi	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	D. Drumm	10200	Eochelidium sp.	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	D. Drumm	7436	Balanus crenatus	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	6550	Armandia brevis	2
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	8000	Glycinde picta	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	7598	Scoletoma luti	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	10712	Euchone limnicola	3
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	8337	Euchone sp.	1
184	LDW-Y3_SU-ENR-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-4	C. Barrett	8081	Lanassa venusta venusta	1
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	M. Hill	6524	Nutricola lordi	1
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	6550	Armandia brevis	1
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	7598	Scoletoma luti	3
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	6151	Cirratulidae	2
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	8339	Euchone incolor	2
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	10712	Euchone limnicola	4
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	8337	Euchone sp.	2
185	LDW-Y3_SU-ENR-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-5	C. Barrett	6388	Dipolydora caulleryi	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	6522	Lyonsia californica	2
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	7263	Parvilucina tenuisculpta	2
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	7108	Macoma calcarea	77
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	6460	Axinopsida serricata	19
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	6524	Nutricola lordi	115
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	M. Hill	4390	Ostomia sp.	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	D. Drumm	3125	Americorophium spinicorne	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	D. Drumm	10200	Eochelidium sp.	2
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	D. Drumm	10264	Euphilomedes carcharodonta	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7531	Barantolla americana	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	13
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	6550	Armandia brevis	12
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7598	Scoletoma luti	10
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7990	Bipalponephtys cornuta	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7611	Nephtys ferruginea	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	10572	Sphaerosyllis ranunculus	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	9763	Aphelochaeta glandaria Complex	10
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7553	Cistenides granulata	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	8339	Euchone incolor	6
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	10712	Euchone limnicola	8
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	8337	Euchone sp.	4
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	6388	Dipolydora caulleryi	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	6338	Prionospio sp.	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	7626	Spiophanes berkeleyorum	1
186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-6	C. Barrett	8081	Lanassa venusta venusta	3
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	9668	Pennatulacea	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	6522	Lyonsia californica	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	7263	Parvilucina tenuisculpta	4
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	7108	Macoma calcarea	84
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	6460	Axinopsida serricata	18
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	6831	Compsomyx subdiaphana	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	6524	Nutricola lordi	26
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	D. Drumm	9867	Protomedeia prudens	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	D. Drumm	10264	Euphilomedes carcharodonta	2

187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7562	Heteromastus filobranchus	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6405	Heteromastus sp.	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	3
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7604	Praxillella gracilis	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6550	Armandia brevis	32
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8000	Glycinde picta	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6111	Lumbrineridae	5
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7598	Scoletoma luti	9
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6494	Eteone longa	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7587	Sphaerodoropsis sphaerulifer	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8002	Ampharete labrops	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6151	Cirratulidae	10
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	9763	Aphelochaeta glandaria Complex	35
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7553	Cistenides granulata	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8339	Euchone incolor	3
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	10712	Euchone limnicola	15
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8337	Euchone sp.	4
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6388	Dipolydora caulleryi	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	6338	Prionospio sp.	5
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	7626	Spiophanes berkeleyorum	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8081	Lanassa venusta venusta	1
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	C. Barrett	8011	Terebellides californica	2
187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-7	M. Hill	9748	Priapulul caudatus	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	7263	Parvilucina tenuisculpta	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	9608	Kurtiella tumida	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	7108	Macoma calcarea	45
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	6460	Axinopsida serricata	61
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	6524	Nutricola lordi	25
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	11234	Melanochlamys diomedea	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	D. Drumm	10200	Eochelidium sp.	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	D. Drumm	10264	Euphilomedes carcharodonta	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7562	Heteromastus filobranchus	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6405	Heteromastus sp.	2
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	9
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7604	Praxillella gracilis	6
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6550	Armandia brevis	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	8039	Glycera nana	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6111	Lumbrineridae	11
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7598	Scoletoma luti	21
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6494	Eteone longa	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	8052	Phyllodoce hartmanae	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6151	Cirratulidae	25
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	9763	Aphelochaeta glandaria Complex	25
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6390	Chaetozone sp.	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7561	Galathowenia oculata	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7553	Cistenides granulata	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	8339	Euchone incolor	2
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	10712	Euchone limnicola	5
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	8337	Euchone sp.	2
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6388	Dipolydora caulleryi	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6338	Prionospio sp.	4
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	7626	Spiophanes berkeleyorum	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	8011	Terebellides californica	2
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	C. Barrett	6092	Aricidea (Acmira) catherinae	1
188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-8	M. Hill	9748	Priapulul caudatus	3
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	M. Hill	7108	Macoma calcarea	7
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	M. Hill	6524	Nutricola lordi	5
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	D. Drumm	10200	Eochelidium sp.	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	9762	Capitella capitata Complex	1

189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	7562	Heteromastus filobranchus	2
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	32
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6550	Armandia brevis	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6111	Lumbrineridae	3
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	7598	Scoletoma luti	9
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6494	Eteone longa	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	7609	Tenonia priops	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6151	Cirratulidae	6
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	9763	Aphelochaeta glandaria Complex	25
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	7553	Cistenides granulata	2
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	8339	Euchone incolor	3
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	10712	Euchone limnicola	2
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	8337	Euchone sp.	3
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6388	Dipolydora caulleryi	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	7625	Prionospio (Minuspio) lighti	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	6338	Prionospio sp.	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	9770	Artacama coniferi	1
189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-9	C. Barrett	8081	Lanassa venusta venusta	1
190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-10	M. Hill	7108	Macoma calcarea	3
190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-10	C. Barrett	6405	Heteromastus sp.	1
190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-10	C. Barrett	7598	Scoletoma luti	1
190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-10	C. Barrett	8339	Euchone incolor	1
190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	9/28/2020	Estuary	EcoAnalysts	8135.1-10	C. Barrett	9770	Artacama coniferi	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	6280	Lyonsia sp.	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	8933	Keenaea centifilosa	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	7263	Parvilucina tenuisculpta	5
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	7108	Macoma calcarea	7
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	6460	Axinopsida serricata	22
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	6524	Nutricola lordi	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	D. Drumm	9867	Protomedeia prudens	2
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	D. Drumm	10264	Euphilomedes carcharodonta	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	7562	Heteromastus filobranchus	3
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6405	Heteromastus sp.	9
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	4
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	7604	Praxillella gracilis	4
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6929	Praxillella sp.	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6550	Armandia brevis	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	4189	Hesionidae	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6111	Lumbrineridae	9
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	7598	Scoletoma luti	12
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	7990	Bipalponophytys cornuta	2
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	7611	Nephtys ferruginea	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6440	Syllis sp.	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	6151	Cirratulidae	18
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	9763	Aphelochaeta glandaria Complex	20
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	10712	Euchone limnicola	2
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	8337	Euchone sp.	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	8802	Polycirrinae	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	9770	Artacama coniferi	7
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	8514	Polycirrus sp. I sensu Banse 1980	1
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	C. Barrett	8011	Terebellides californica	8
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	9748	Priapulid caudatus	2
191	LDW-Y3_SC-ENR-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-11	M. Hill	8465	Thysanocardia nigra	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	8163	Macaula alaskensis Cmplx	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	8236	Solamen columbianum	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	7263	Parvilucina tenuisculpta	8
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	9608	Kurtiella tumida	3
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	7400	Solen sicarius	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	7108	Macoma calcarea	4

192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	6460	Axinopsida serricata	39
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	6524	Nutricola lordi	11
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	4	Oligochaeta	2
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	9691	Paranemertes californica	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	D. Drumm	6154	Pinnixa sp.	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	6144	Amphipholis squamata	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	D. Drumm	10264	Euphilomedes carcharodonta	6
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7531	Barantolla americana	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7562	Heteromastus filobranchus	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6405	Heteromastus sp.	3
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	4
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7604	Praxillella gracilis	4
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6550	Armandia brevis	3
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	8000	Glycinde picta	2
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6111	Lumbrineridae	5
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7595	Lumbrineris californiensis	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7598	Scoletoma luti	19
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6210	Pholoe minuta	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6494	Eteone longa	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7587	Sphaerodoropsis sphaerulifer	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	6151	Cirratulidae	17
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	9763	Aphelochaeta glandaria Complex	42
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7553	Cistenides granulata	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	10712	Euchone limnicola	3
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	9770	Artacama coniferi	4
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	8081	Lanassa venusta venusta	1
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	7580	Polycirrus californicus	2
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	C. Barrett	8011	Terebellides californica	8
192	LDW-Y3_SC-ENR-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-12	M. Hill	9748	Priapulys caudatus	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	67	Nematoda	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	8163	Macaula alaskensis Cmplx	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	6280	Lyonsia sp.	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	8236	Solamen columbianum	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	7263	Parvilucina tenuisculpta	10
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	9608	Kurtiella tumida	3
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	7400	Solen sicarius	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	7108	Macoma calcarea	4
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	6460	Axinopsida serricata	28
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	6524	Nutricola lordi	15
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	10987	Saxidomus gigantea	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	D. Drumm	8825	Dyopedos monacanthus	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	D. Drumm	10264	Euphilomedes carcharodonta	12
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7562	Heteromastus filobranchus	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6405	Heteromastus sp.	10
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7604	Praxillella gracilis	5
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6550	Armandia brevis	4
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8000	Glycinde picta	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6111	Lumbrineridae	8
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7598	Scoletoma luti	8
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6133	Nephtyidae	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7611	Nephtys ferruginea	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6210	Pholoe minuta	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6494	Eteone longa	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8052	Phyllodoce hartmanae	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8298	Malmgreniella liei	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7587	Sphaerodoropsis sphaerulifer	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7522	Exogone lourei	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6440	Syllis sp.	6

193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6151	Cirratulidae	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	9763	Aphelochaeta glandaria Complex	5
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7553	Cistenides granulata	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8339	Euchone incolor	5
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8337	Euchone sp.	4
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	6388	Dipolydora caulleryi	1
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	9770	Artacama coniferi	4
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	7580	Polycirrus californicus	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8514	Polycirrus sp. I sensu Banse 1980	3
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	C. Barrett	8011	Terebellides californica	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	9748	Priapulius caudatus	2
193	LDW-Y3_SC-ENR-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-13	M. Hill	8465	Thysanocardia nigra	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	67	Nematoda	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	6813	Lineidae	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	8236	Solamen columbianum	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	6821	Clinocardium nuttallii	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	7263	Parvilucina tenuisculpta	21
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	9608	Kurtiella tumida	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	7108	Macoma calcarea	4
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	7109	Macoma elimata	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	6460	Axinopsida serricata	25
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	6524	Nutricola lordi	11
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	D. Drumm	8194	Aoroides inermis	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	D. Drumm	10264	Euphilomedes carcharodonta	6
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	9762	Capitella capitata Complex	9
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7562	Heteromastus filobranchus	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6405	Heteromastus sp.	6
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6550	Armandia brevis	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	8000	Glycinde picta	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6111	Lumbrineridae	11
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7595	Lumbrineris californiensis	19
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7598	Scoletoma luti	18
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7621	Platynereis bicanaliculata	5
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6210	Pholoe minuta	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	10302	Eulalia quadrioculata	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	8002	Ampharete labrops	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6151	Cirratulidae	6
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	9763	Aphelochaeta glandaria Complex	46
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7553	Cistenides granulata	7
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	10712	Euchone limnicola	6
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	8337	Euchone sp.	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6388	Dipolydora caulleryi	7
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6365	Prionospio steenstrupi	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	6338	Prionospio sp.	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7626	Spiophanes berkeleyorum	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	8802	Polycirrinae	3
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7605	Pista wui	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	8011	Terebellides californica	2
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	C. Barrett	7655	Scoloplos acmeceps	1
194	LDW-Y3_SC-ENR-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-14	M. Hill	9748	Priapulius caudatus	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	6794	Cardiomya pectinata	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	6456	Ennucula tenuis	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	7263	Parvilucina tenuisculpta	4
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	9608	Kurtiella tumida	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	7108	Macoma calcarea	4
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	6460	Axinopsida serricata	19
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	6524	Nutricola lordi	3
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	4	Oligochaeta	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	D. Drumm	6936	Erichthonius sp.	1

195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	D. Drumm	8825	Dyopedos monacanthus	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	D. Drumm	9679	Pinnixa schmitti	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	M. Hill	3237	Amphiodia urtica	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	D. Drumm	10264	Euphilomedes carcharodonta	3
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	5468	Capitellidae	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7531	Barantolla americana	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7566	Decamastus gracilis	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6405	Heteromastus sp.	9
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	4385	Mediomastus sp.	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	4
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7604	Praxillella gracilis	4
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8427	Rhodine bitorquata	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6550	Armandia brevis	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6111	Lumbrineridae	7
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7595	Lumbrineris californiensis	3
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7598	Scoletoma luti	17
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7621	Platynereis bicanaliculata	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8036	Diopatra ornata	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6494	Eteone longa	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8298	Malmgreniella liei	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7522	Exogone lourei	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8002	Ampharete labrops	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6151	Cirratulidae	13
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	9763	Aphelochaeta glandaria Complex	48
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	7553	Cistenides granulata	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8339	Euchone incolor	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	10712	Euchone limnicola	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8337	Euchone sp.	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6388	Dipolydora caulleryi	2
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	6338	Prionospio sp.	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	9770	Artacama coniferi	3
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8514	Polycirrus sp. I sensu Banse 1980	1
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8011	Terebellides californica	7
195	LDW-Y3_SC-ENR-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-15	C. Barrett	8447	Terebellides reishi	2
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	M. Hill	67	Nematoda	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	M. Hill	6280	Lyonsia sp.	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	M. Hill	4387	Mya arenaria	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	M. Hill	10987	Saxidomus gigantea	2
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	D. Drumm	8194	Aoroides inermis	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	D. Drumm	6463	Monocorophium acherusicum	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	D. Drumm	7436	Balanus crenatus	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6405	Heteromastus sp.	9
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	4385	Mediomastus sp.	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7604	Praxillella gracilis	2
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6550	Armandia brevis	3
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	8039	Glycera nana	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6111	Lumbrineridae	4
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7595	Lumbrineris californiensis	9
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7598	Scoletoma luti	7
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	3334	Neanthes limnicola	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7621	Platynereis bicanaliculata	3
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	8298	Malmgreniella liei	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	8002	Ampharete labrops	2
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6151	Cirratulidae	16
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	9763	Aphelochaeta glandaria Complex	56
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6390	Chaetozone sp.	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7553	Cistenides granulata	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	10712	Euchone limnicola	2
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6388	Dipolydora caulleryi	21

196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	6338	Prionospio sp.	4
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	8802	Polycirrinae	11
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	11386	Eupolymnia heterobranchia	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	C. Barrett	7605	Pista wui	1
196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-16	M. Hill	9748	Priapulius caudatus	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	9680	Tubulanus polymorphus	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	6813	Lineidae	2
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	4045	Actiniaria	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	9608	Kurtiella tumida	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	6460	Axinopsida serricata	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	M. Hill	6524	Nutricola lordi	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	D. Drumm	10097	Romaleon sp.	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	D. Drumm	10264	Euphilomedes carcharodonta	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7531	Barantolla americana	4
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7562	Heteromastus filobranchus	2
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	6405	Heteromastus sp.	2
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7604	Praxillella gracilis	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	8427	Rhodine bitorquata	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	6550	Armandia brevis	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	9502	Oxydromus pugettensis	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	6111	Lumbrineridae	19
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7598	Scoletoma luti	8
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	8036	Diopatra ornata	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	6494	Eteone longa	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	8406	Syllis hyperioni	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	6151	Cirratulidae	11
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	9763	Aphelochaeta glandaria Complex	53
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7553	Cistenides granulata	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	8802	Polycirrinae	2
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	9770	Artacama coniferi	6
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	8011	Terebellides californica	1
197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-17	C. Barrett	7623	Leitoscoloplos pugettensis	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	M. Hill	9608	Kurtiella tumida	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	D. Drumm	6463	Monocorophium acherusicum	3
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7531	Barantolla americana	7
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	4385	Mediomastus sp.	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	6550	Armandia brevis	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7988	Protodorvillea gracilis	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	4189	Hesionidae	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	6111	Lumbrineridae	2
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7595	Lumbrineris californiensis	3
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7598	Scoletoma luti	2
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7621	Platynereis bicanaliculata	10
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	6151	Cirratulidae	6
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	9763	Aphelochaeta glandaria Complex	10
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	6390	Chaetozone sp.	2
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	6388	Dipolydora caulleryi	1
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	8802	Polycirrinae	12
198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-18	C. Barrett	7605	Pista wui	8
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	67	Nematoda	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	8163	Macaula alaskensis Cmplx	9
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	4182	Mytilidae	3
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	7263	Parvilucina tenuisculpta	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	9608	Kurtiella tumida	7
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	7108	Macoma calcarea	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	6460	Axinopsida serricata	19
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	6524	Nutricola lordi	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	10987	Saxidomus gigantea	1

199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	4	Oligochaeta	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	7475	Zygonemertes virescens	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	M. Hill	6666	Alvania compacta	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	D. Drumm	2269	Thalassosmittia sp.	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	D. Drumm	8146	Ampithoe plumulosa	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	D. Drumm	6492	Caprella sp.	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	D. Drumm	7436	Balanus crenatus	3
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7531	Barantolla americana	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6405	Heteromastus sp.	8
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7604	Praxillella gracilis	6
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6550	Armandia brevis	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	8221	Dorvillea (Schistomeringos) annulata	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	8000	Glycinde picta	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	9502	Oxydromus pugettensis	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6111	Lumbrineridae	4
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7595	Lumbrineris californiensis	6
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7598	Scoletoma luti	19
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6133	Nephtyidae	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7621	Platynereis bicanaliculata	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6210	Pholoe minuta	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	8298	Malmgreniella liei	2
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7522	Exogone lourei	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6440	Syllis sp.	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6151	Cirratulidae	10
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	9763	Aphelochaeta glandaria Complex	123
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6390	Chaetozone sp.	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	8339	Euchone incolor	22
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	10712	Euchone limnicola	5
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6388	Dipolydora caulleryi	6
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	6338	Prionospio sp.	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	8802	Polycirrinae	7
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	9770	Artacama coniferi	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	10003	Pista brevibranchiata	1
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7605	Pista wui	4
199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-19	C. Barrett	7580	Polycirrus californicus	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	9680	Tubulanus polymorphus	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	8163	Macaula alaskensis Cmplx	4
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	9668	Pennatulacea	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	6280	Lyonsia sp.	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	8236	Solamen columbianum	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	7263	Parvilucina tenuisculpta	9
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	9608	Kurtiella tumida	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	7108	Macoma calcarea	7
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	6460	Axinopsida serricata	23
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	6524	Nutricola lordi	6
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	D. Drumm	10264	Euphilomedes carcharodonta	11
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7531	Barantolla americana	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	9762	Capitella capitata Complex	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7562	Heteromastus filobranchus	3
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	6405	Heteromastus sp.	3
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7564	Notomastus hemipodus	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	9620	Cossura sp. A sensu Phillips 1987	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7604	Praxillella gracilis	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	6111	Lumbrineridae	4
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7595	Lumbrineris californiensis	4
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7598	Scoletoma luti	25
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7611	Nephtys ferruginea	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	6151	Cirratulidae	5

200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	9763	Aphelochaeta glandaria Complex	85
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7553	Cistenides granulata	4
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	8339	Euchone incolor	3
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	6388	Dipolydora caulleryi	7
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	8802	Polycirrinae	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	9770	Artacama coniferi	1
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	7605	Pista wui	2
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	C. Barrett	8011	Terebellides californica	6
200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	9/25/2020	Estuary	EcoAnalysts	8135.1-20	M. Hill	9748	Priapulid caudatus	1
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	M. Hill	693	Diptera	2
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	D. Drumm	4455	Americorophium salmonis	206
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	D. Drumm	3125	Americorophium spinicorne	111
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	D. Drumm	5709	Gnorimosphaeroma oregonensis	2
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	D. Drumm	5560	Sinelobus stanfordi	3
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	M. Hill	3334	Neanthes limnicola	28
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	M. Hill	3968	Hobsonia florida	4
201	LDW-Y3_IN-ENR-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-21	M. Hill	2	Turbellaria	1
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	M. Hill	67	Nematoda	2
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	M. Hill	693	Diptera	5
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	116	Amphipoda	1
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	5554	Eogammarus confervicolus	4
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	4455	Americorophium salmonis	10
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	3125	Americorophium spinicorne	216
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	5709	Gnorimosphaeroma oregonensis	6
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	D. Drumm	5560	Sinelobus stanfordi	15
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	M. Hill	3334	Neanthes limnicola	75
202	LDW-Y3_IN-ENR-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-22	M. Hill	3968	Hobsonia florida	2
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	M. Hill	67	Nematoda	2
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	M. Hill	693	Diptera	2
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	M. Hill	693	Diptera	1
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	D. Drumm	4455	Americorophium salmonis	9
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	D. Drumm	3125	Americorophium spinicorne	48
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	M. Hill	3334	Neanthes limnicola	71
203	LDW-Y3_IN-ENR-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-23	M. Hill	3968	Hobsonia florida	2
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	M. Hill	693	Diptera	1
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	D. Drumm	5554	Eogammarus confervicolus	3
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	D. Drumm	5555	Grandidierella japonica	4
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	D. Drumm	4455	Americorophium salmonis	1
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	D. Drumm	3125	Americorophium spinicorne	28
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	D. Drumm	5709	Gnorimosphaeroma oregonensis	3
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	M. Hill	3334	Neanthes limnicola	4
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	M. Hill	3968	Hobsonia florida	1
204	LDW-Y3_IN-ENR-MI-D-MACRO	9/16/2020	Estuary	EcoAnalysts	8135.1-24	M. Hill	5700	Pseudopolydora cf. kempii	2
205	LDW-Y3_IN-ENR-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-25	M. Hill	4	Oligochaeta	2
205	LDW-Y3_IN-ENR-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-25	D. Drumm	5560	Sinelobus stanfordi	2
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	M. Hill	4	Oligochaeta	2
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	M. Hill	693	Diptera	1
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	5554	Eogammarus confervicolus	4
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	5555	Grandidierella japonica	1
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	4455	Americorophium salmonis	12
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	3125	Americorophium spinicorne	302
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	5709	Gnorimosphaeroma oregonensis	4
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	D. Drumm	5560	Sinelobus stanfordi	16
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	M. Hill	3334	Neanthes limnicola	78
206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-26	M. Hill	3968	Hobsonia florida	1
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	M. Hill	4	Oligochaeta	2
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	D. Drumm	5554	Eogammarus confervicolus	1
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	D. Drumm	5555	Grandidierella japonica	1
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	D. Drumm	4455	Americorophium salmonis	4

207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	D. Drumm	3125	Americorophium spinicorne	6
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	D. Drumm	5560	Sinelobus stanfordi	28
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	M. Hill	3334	Neanthes limnicola	10
207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-27	M. Hill	3968	Hobsonia florida	2
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	M. Hill	3174	Halacaridae	3
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	M. Hill	4	Oligochaeta	6
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	5554	Eogammarus confervicolus	1
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	5555	Grandierella japonica	5
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	4455	Americorophium salmonis	49
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	3125	Americorophium spinicorne	340
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	5709	Gnorimosphaeroma oregonensis	1
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	D. Drumm	5560	Sinelobus stanfordi	11
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	M. Hill	3334	Neanthes limnicola	73
208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-28	M. Hill	3968	Hobsonia florida	2
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	M. Hill	4	Oligochaeta	1
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	M. Hill	421	Coleoptera	1
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	M. Hill	693	Diptera	2
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	D. Drumm	5554	Eogammarus confervicolus	2
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	D. Drumm	5709	Gnorimosphaeroma oregonensis	3
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	D. Drumm	5560	Sinelobus stanfordi	2
209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-29	M. Hill	3334	Neanthes limnicola	1
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	M. Hill	67	Nematoda	2
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	M. Hill	4	Oligochaeta	6
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	D. Drumm	3125	Americorophium spinicorne	4
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	D. Drumm	5709	Gnorimosphaeroma oregonensis	1
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	D. Drumm	5560	Sinelobus stanfordi	17
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	M. Hill	3334	Neanthes limnicola	2
210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	9/17/2020	Estuary	EcoAnalysts	8135.1-30	M. Hill	3968	Hobsonia florida	1

Wood LDWG Consulting Estuarine Infauna 2020

Sort Report



EcoA			Collection		% Primary	Estimated	Estimated		Estimated	Estimated
Sample ID	Station	Sample ID	Date	Sorter	Subsampled Matrix	Pre-Rinse Volume (L)	Post-Rinse Volume (L)	QC Sorter	%Efficacy 1	%Efficacy 2
8135.1-1	181	LDW-Y3_SU-ENR-MI-A-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	2.05	0.02	M. Walker	96.23	N/A
8135.1-2	182	LDW-Y3_SU-ENR-MI-B-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	1.00	0.02	M. Walker	98.67	N/A
8135.1-3	183	LDW-Y3_SU-ENR-MI-C-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	1.52	0.02	M. Walker	98.08	N/A
8135.1-4	184	LDW-Y3_SU-ENR-MI-D-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	1.54	0.01	M. Walker	100.00	N/A
8135.1-5	185	LDW-Y3_SU-ENR-MI-E-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	1.50	0.01	M. Walker	100.00	N/A
8135.1-6	186	LDW-Y3_SU-ENR+AC-MI-A-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	0.13	0.04	M. Walker	98.97	N/A
8135.1-7	187	LDW-Y3_SU-ENR+AC-MI-B-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	0.90	0.02	M. Walker	97.50	N/A
8135.1-8	188	LDW-Y3_SU-ENR+AC-MI-C-MACRO	09/28/2020	K. Hall	100.00 Inorganic	0.08	0.08	M. Walker	98.03	N/A
8135.1-9	189	LDW-Y3_SU-ENR+AC-MI-D-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	0.05	0.02	M. Walker	99.12	N/A
8135.1-10	190	LDW-Y3_SU-ENR+AC-MI-E-MACRO	09/28/2020	C. Barbour	100.00 Inorganic	0.06	0.01	M. Walker	100.00	N/A
8135.1-11	191	LDW-Y3_SC-ENR-MI-A-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	1.70	0.03	M. Walker	96.10	N/A
8135.1-12	192	LDW-Y3_SC-ENR-MI-B-MACRO	09/25/2020	K. Hall	100.00 Inorganic	1.00	0.05	M. Walker	96.85	N/A
8135.1-13	193	LDW-Y3_SC-ENR-MI-C-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	1.64	0.03	C. Pike	95.48	N/A
8135.1-14	194	LDW-Y3_SC-ENR-MI-D-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	0.75	0.14	C. Pike	95.02	N/A
8135.1-15	195	LDW-Y3_SC-ENR-MI-E-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	0.95	0.05	C. Pike	95.83	N/A
8135.1-16	196	LDW-Y3_SC-ENR+AC-MI-A-MACRO	09/25/2020	K. Hall	100.00 Inorganic	1.75	0.02	C. Pike	95.43	N/A
8135.1-17	197	LDW-Y3_SC-ENR+AC-MI-B-MACRO	09/25/2020	K. Hall	100.00 Inorganic	1.75	0.02	C. Pike	99.31	N/A
8135.1-18	198	LDW-Y3_SC-ENR+AC-MI-C-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	2.48	0.02	C. Pike	95.24	N/A
8135.1-19	199	LDW-Y3_SC-ENR+AC-MI-D-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	1.40	0.04	C. Pike	90.58	100.00
8135.1-20	200	LDW-Y3_SC-ENR+AC-MI-E-MACRO	09/25/2020	C. Barbour	100.00 Inorganic	0.41	0.05	C. Pike	95.06	N/A
8135.1-21	201	LDW-Y3_IN-ENR-MI-A-MACRO	09/17/2020	K. Hall	100.00 Inorganic	1.20	0.05	C. Pike	99.45	N/A
8135.1-22	202	LDW-Y3_IN-ENR-MI-B-MACRO	09/17/2020	K. Hall	100.00 Inorganic	2.40	0.05	C. Pike	99.71	N/A
8135.1-23	203	LDW-Y3_IN-ENR-MI-C-MACRO	09/17/2020	K. Hall	100.00 Inorganic	1.80	0.05	M. Walker	98.51	N/A
8135.1-24	204	LDW-Y3_IN-ENR-MI-D-MACRO	09/16/2020	K. Hall	100.00 Inorganic	2.17	0.02	M. Walker	100.00	N/A
8135.1-25	205	LDW-Y3_IN-ENR-MI-E-MACRO	09/17/2020	K. Hall	100.00 Inorganic	3.25	0.01	M. Walker	100.00	N/A
8135.1-26	206	LDW-Y3_IN-ENR+AC-MI-A-MACRO	09/17/2020	K. Hall	100.00 Inorganic	2.25	0.05	M. Walker	99.53	N/A
8135.1-27	207	LDW-Y3_IN-ENR+AC-MI-B-MACRO	09/17/2020	C. Barbour	100.00 Inorganic	1.95	0.01	M. Walker	96.23	N/A
8135.1-28	208	LDW-Y3_IN-ENR+AC-MI-C-MACRO	09/17/2020	C. Barbour	100.00 Inorganic	2.10	0.03	M. Walker	97.57	N/A
8135.1-29	209	LDW-Y3_IN-ENR+AC-MI-D-MACRO	09/17/2020	K. Hall	100.00 Inorganic	2.57	0.02	M. Walker	100.00	N/A
8135.1-30	210	LDW-Y3_IN-ENR+AC-MI-E-MACRO	09/17/2020	C. Barbour	100.00 Inorganic	2.00	0.01	M. Walker	85.71	100.00


Biologica Environmental Services Ltd. verification results for EcoAnalysts Wood LDWG reference collection, 2020.

Client	Project	Year	Vial ID	Taxcode	Client ID	Sample Date	Group	Location	Count	Biologica ID	QC Taxonomic Note	Taxonomic Note: Reconciliation
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	MOLL	Nutricula lordi	28-Sep-20	General	A-01	1	Agree Disagree.		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	MOLL	Macoma calcarea	28-Sep-20	General	A-02	1	Macoma		Posterior end notably shorter than anterior, twisted to right;
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	MOLL	Axinopsida serricata	28-Sep-20	General	A-03	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	MOLL	Parvilucina tenuisculpta	28-Sep-20	General	A-04	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8315.1-3	MOLL	Compsomyax subdiaphana	28-Sep-20	General	A-05	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8315.1-3	MOLL	Lyonsia californica	28-Sep-20	General	A-06	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8315.1-4	MOLL	Macoma sp.	28-Sep-20	General	A-07	1	Agree	Possibly Macoma carlottensis	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	MOLL	Evalea tenuisculpta	28-Sep-20	General	A-08	1	Odostomia sp. (Evalea sp.)	Possibly Odostomia (Evalea) tenuisculpta, I however due to size and damage to the	Backed off to genus
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-7	MISC	Pennatulacea indet.	28-Sep-20	General	A-09	1	Agree	Very damaged. Possibly Virgulariidae	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	MOLL	Melanochlamys diomedea	28-Sep-20	General	A-10	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-11	MISC	Thysanocardia nigra	25-Sep-20	General	A-11	1	indet.	Juvenile, only saw one nephridia	contractile vessel villi present, nephridia damaged but present.
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-11	MOLL	Keenaea centifilosa	25-Sep-20	General	A-12	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	MISC	Paranemertes californica	25-Sep-20	General	B-01	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	MISC	Macaula alaskensis complex	25-Sep-20	General	B-02	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	ECHI	Amphipholis squamata	25-Sep-20	General	B-03	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MISC	Nematoda	25-Sep-20	General	B-04	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MOLL	Saxidomus gigantea	25-Sep-20	General	B-05	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MISC	Priapulid caudatus	25-Sep-20	General	B-06	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MOLL	Solen sicarius	25-Sep-20	General	B-07	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MOLL	Solamen columbianum	25-Sep-20	General	B-08	1	Agree	Sculpture is fainter than I am used to seeing	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MOLL	Kurtiella tumida	25-Sep-20	General	B-09	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	MOLL	Lyonsia sp.	25-Sep-20	General	B-10	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	MOLL	Macoma elimata	25-Sep-20	General	B-11	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	MISC	Lineidae indet.	25-Sep-20	General	B-12	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	MOLL	Clinocardium nuttallii	25-Sep-20	General	C-01	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ECHI	Amphiodia urtica	25-Sep-20	General	C-02	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	MOLL	Cardiomya pectinata	25-Sep-20	General	C-03	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	MOLL	Ennucula tenuis	25-Sep-20	General	C-04	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-16	MOLL	Mya arenaria	25-Sep-20	General	C-05	1	Agree	Generally I would leave one of this size &	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	MISC	Actiniaria	25-Sep-20	General	C-06	1	Agree	Damaged, looks like Edwardsiidae	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	MISC	Tubulanus polymorphus	25-Sep-20	General	C-07	1	Tubulanus sp.	No distinctive markings.	Color pattern faint but visible,
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	MOLL	Mytilidae indet.	25-Sep-20	General	C-08	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	MISC	Zygonemertes virescens	25-Sep-20	General	C-09	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	MOLL	Alvania compacta	25-Sep-20	General	C-10	1	Alvania sp.	Looks more like Alvania rosana, but shell is	radial ribs closely spaced, not A.
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-21	MISC	Turbellaria indet.	17-Sep-20	General	C-11	1	Agree,		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-28	ARTH	Halacaridae indet.	17-Sep-20	General	C-12	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-29	ARTH	Diptera	17-Sep-20	General	D-01	1	Agree. Would ID	Anal end truncate w breathing tube,	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-29	ARTH	Coleoptera	17-Sep-20	General	D-02	1	Agree. Would ID	Maxilla w palpifer appearing as part of	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	ARTH	Leucon subnasica	28-Sep-20	Arthropoda	F-01	2	Agree	Male carapace damaged	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	ARTH	Eudorella pacifica	28-Sep-20	Arthropoda	F-02	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-1	ARTH	Protomedea sp.	28-Sep-20	Arthropoda	F-03	1	Agree	partial specimen	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-2	ARTH	Kamptopleustes coquillus	28-Sep-20	Arthropoda	F-04	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-3	ARTH	Eochelidium sp.	28-Sep-20	Arthropoda	F-05	1	Agree	Legs damaged.	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-4	ARTH	Balanus crenatus	28-Sep-20	Arthropoda	F-06	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	ARTH	Americorophium spinicorne	28-Sep-20	Arthropoda	F-07	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	ARTH	Euphilomedes carcharodonta	28-Sep-20	Arthropoda	F-08	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-7	ARTH	Protomedea prudens	28-Sep-20	Arthropoda	F-09	1	Protomedea sp.	Female, damaged. Most likely P. prudens	Characters needed to identify to species were present (female
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	ARTH	Balanidae indet.	28-Sep-20	Arthropoda	F-10	1	Disagree. Egg	I agree, it's too small to identify	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	ARTH	Pinnixa occidentalis	25-Sep-20	Arthropoda	F-11	1	Pinnixa sp.	Possibly P. schmitti based on the shape of	I backed off to genus

Client	Project	Year	Vial ID	Taxcode	Client ID	Sample Date	Group	Location	Count	Biologica ID	QC Taxonomic Note	Taxonomic Note: Reconciliation
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	ARTH	Dyopodos monacanthus	25-Sep-20	Arthropoda	F-12	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ARTH	Aoroides inermis	25-Sep-20	Arthropoda	G-01	2	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ARTH	Pinnixa schmitti	25-Sep-20	Arthropoda	G-02	1	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ARTH	Erichthonius sp.	25-Sep-20	Arthropoda	G-03	1	Agree	E. brasiliensis? Immature. According to Cadien 2004 females have pale eyes when Often I would be more cautious and only indentify a single speciemen like this as	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-16	ARTH	Monocorophium acherusicum	25-Sep-20	Arthropoda	G-04	1	Agree	Monocorophium sp. as the second antennae	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ARTH	Thalassomya sp.	25-Sep-20	Arthropoda	G-07	2	Thalassosmittia	prementum without well developed brush, This is an immature female and could also be	Changed to Thalassosmittia
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ARTH	Caprella ferrea	25-Sep-20	Arthropoda	G-08	1	Caprella sp.	other Caprella like C. mutica or C. alaskana.	I backed off to genus
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ARTH	Ampithoe plumulosa	25-Sep-20	Arthropoda	G-09	1	Agree	Rounded 3rd epimera rounded	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-21	ARTH	Gnorimosphaeroma oregonense	17-Sep-20	Arthropoda	G-10	2	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-21	ARTH	Sinelobus stanfordi	17-Sep-20	Arthropoda	G-11	2	Agree	Sinebolus	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-21	ARTH	Americorophium salmonis	17-Sep-20	Arthropoda	G-12	2	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-22	ARTH	Eogammarus confervicolus	17-Sep-20	Arthropoda	H-01	2	Agree		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-22	ARTH	Grandidierella japonica	17-Sep-20	Arthropoda	H-02	1	Amphipoda indet. Disagree.	It looks like it could be G. japonica but it is a partial speciemen missing key characters.	After seeing numerous Grandidierella specimens, the pigment pattern on the head is Agree with QC taxonomist for RC;
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Ampharete finmarchica	25-Sep-20	Polychaeta	M-07	1	Ampharete	With band of eyes around upper lip	No eyes on A. finmarchica in
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Aphelochaeta glandaria complex	25-Sep-20	Polychaeta	L-01	1	Agreed	However, better to have posterior end to	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	ANNE	Aricidea catherinae	28-Sep-20	Polychaeta	J-11	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Armandia brevis	25-Sep-20	Polychaeta	L-03	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Artacama coniferi	25-Sep-20	Polychaeta	N-02	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Barantolla americana	25-Sep-20	Polychaeta	M-09	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	ANNE	Bipalponephtys cornuta	28-Sep-20	Polychaeta	J-05	1	Agreed	Synonym	SCAMIT 12 accepted name
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Capitella capitata complex	25-Sep-20	Polychaeta	K-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Capitellidae indet.	25-Sep-20	Polychaeta	N-01	1	Agreed	Probably Capitella capitata	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	ANNE	Chaetozone sp.	28-Sep-20	Polychaeta	J-10	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Cirratulidae indet.	25-Sep-20	Polychaeta	M-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Cossura sp. A	25-Sep-20	Polychaeta	M-06	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Decamastus gracilis	25-Sep-20	Polychaeta	N-07	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Diopatra ornata	25-Sep-20	Polychaeta	N-03	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Dipolydora caulleryi	25-Sep-20	Polychaeta	M-05	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ANNE	Dorvillea annulata	25-Sep-20	Polychaeta	O-07	1	Agreed	Synonym	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-7	ANNE	Eteone longa	28-Sep-20	Polychaeta	J-08	1	Agreed	Eteone longa complex	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Euchone	25-Sep-20	Polychaeta	K-10	1	Sabellidae indet.	Has companion chaetaes, needs tentacular crown to ID genus. Also lacking posterior	Collar, anterior pigmentation agree with E. limnicola; damaged,
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Euchone incolor	25-Sep-20	Polychaeta	M-10	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Euchone limnicola	25-Sep-20	Polychaeta	L-08	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Eulalia quadrioculata	25-Sep-20	Polychaeta	M-03	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-16	ANNE	Eupolymnia heterobranchia	25-Sep-20	Polychaeta	N-11	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	ANNE	Exogone lourei	25-Sep-20	Polychaeta	K-07	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	ANNE	Galathowenia oculata	28-Sep-20	Polychaeta	J-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-16	ANNE	Glycera capitata	25-Sep-20	Polychaeta	N-09	1	Glycera nana	With three rings per segment	Agree with QC taxonomist; earlier West Coast syn. (Banse &
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-4	ANNE	Glycinde picta	28-Sep-20	Polychaeta	J-03	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-18	ANNE	Hesionidae indet.	25-Sep-20	Polychaeta	O-03	1	Agreed. Would	1 extra cirri on base of parapodium	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Heteromastus filiformis	25-Sep-20	Polychaeta	N-06	1	Disagree.		Agree with QC taxonomist
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Heteromastus filobranchus	25-Sep-20	Polychaeta	M-04	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Heteromastus sp.	25-Sep-20	Polychaeta	L-02	1	Agreed. Would	Looks like typical H. filobranchus	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-30	ANNE	Hobsonia florida	17-Sep-20	Polychaeta	O-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	ANNE	Leitoscoloplos pugettensis	25-Sep-20	Polychaeta	O-01	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Lumbrineridae indet.	25-Sep-20	Polychaeta	L-06	1	Agreed	Probably Scoletoma luti based on the mouth	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	ANNE	Lumbrineris californiensis	25-Sep-20	Polychaeta	K-06	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	ANNE	Malmgreniella liei	25-Sep-20	Polychaeta	K-08	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Mediomastus	25-Sep-20	Polychaeta	N-04	1	Agreed	Probably M. californiensis	

Client	Project	Year	Vial ID	Taxcode	Client ID	Sample Date	Group	Location	Count	Biologica ID	QC Taxonomic Note	Taxonomic Note: Reconciliation
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	ARTH	Romaleon jordani	25-Sep-20	Arthropoda	VIAL	1	Romaleon sp.	Keys to R. jordani. Smaller size and reported rarity north of Oregon leads me to be more	Backed off to genus
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-30	ANNE	Neanthes limnicola	17-Sep-20	Polychaeta	P-01	1	Agreed (Hediste)	Synonym	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-13	ANNE	Nephtyidae indet.	25-Sep-20	Polychaeta	K-09	1	Agreed. Would		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-20	ANNE	Nephtys ferruginea	25-Sep-20	Polychaeta	O-09	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-20	ANNE	Notomastus tenuis	25-Sep-20	Polychaeta	O-08	1	Disagree.	very distinctive staining pattern, no eyespots	Agree with QC taxonomist
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Oligochaeta indet.	25-Sep-20	Polychaeta	M-08	1	Agreed. Would		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-30	ANNE	Oligochaeta indet.	17-Sep-20	Polychaeta	O-11	1	Agreed. Would	Very common intertidal oligo	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	ANNE	Oxydromus pugettensis	25-Sep-20	Polychaeta	O-02	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Pectinaria californiensis	25-Sep-20	Polychaeta	L-11	1	Disagree.	With 12 unciniger	Agree with QC taxonomist
										Agreed based on	However, true P. minuta has dorsum	
										historical ID done	covered by elytra as well as without facial	
										in Puget Sound	tubercle. Specimen more closely resembles	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Pholoe minuta	25-Sep-20	Polychaeta	L-05	1	area.	Pholoe longa. Refer to paper: MEIßNER.	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-8	ANNE	Phyllodoce hartmanae	28-Sep-20	Polychaeta	J-09	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ANNE	Pista brevibranchiata	25-Sep-20	Polychaeta	O-06	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Pista wui	25-Sep-20	Polychaeta	L-10	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Platynereis bicanaliculata	25-Sep-20	Polychaeta	L-09	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Polycirrinae indet.	25-Sep-20	Polychaeta	M-01	1	Agreed. Would	Very typical shape	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-11	ANNE	Polycirrus sp. I	25-Sep-20	Polychaeta	K-04	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-12	ANNE	Polycirrus sp. II	25-Sep-20	Polychaeta	K-05	1	Disagree.	Uncine starts from set 8	Agree with QC taxonomist
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Praxillella gracilis	25-Sep-20	Polychaeta	M-11	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-11	ANNE	Praxillella pacifica	25-Sep-20	Polychaeta	K-03	1	Praxillella sp.	Possibly Praxillella gracilis with pointed	MG staining fits P. pacifica, but
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Prionospio dubia	25-Sep-20	Polychaeta	L-07	1	Disagree.	Dorsal crest present from seg 7	Agree with QC taxonomist;
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Prionospio jubata	25-Sep-20	Polychaeta	M-02	1	Disagree.	Dorsal crest present from seg 7	Agree with QC taxonomist;
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-9	ANNE	Prionospio lighti	28-Sep-20	Polychaeta	K-02	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Prionospio sp.	25-Sep-20	Polychaeta	L-04	1	Agreed		
										Disagree.	With 4 double row of uncine with	Agree with QC taxonomist;
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-4	ANNE	Proclea graffi	28-Sep-20	Polychaeta	J-02	1	Lanassa venusta	notopodium and 4 double row of uncine	chaetiger 2 with uncini
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-18	ANNE	Protodorvillea gracilis	25-Sep-20	Polychaeta	O-04	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-24	ANNE	Pseudopolydora cf. kemp	16-Sep-20	Polychaeta	O-10	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Rhodine bitorquata	25-Sep-20	Polychaeta	N-05	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-16	ANNE	Scoletoma luti	25-Sep-20	Polychaeta	N-10	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Scoloplos acmeceps	25-Sep-20	Polychaeta	L-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-7	ANNE	Sphaerodoropsis minutum	28-Sep-20	Polychaeta	J-07	1	Disagree.	No micropapillae among macropapillae on	Agree with QC taxonomist
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	ANNE	Sphaerosyllis ranunculus	28-Sep-20	Polychaeta	J-04	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-6	ANNE	Spiophanes berkeleyorum	28-Sep-20	Polychaeta	J-06	1	Agreed		
										Agreed as a	However, more closely resembles S. norrisi	
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-3	ANNE	Spiophanes bombyx complex	28-Sep-20	Polychaeta	J-01	1	complex	based on DNA analysis from (MEIßNER	Agree with QC taxonomist; S.
										Does not have a distinctive bifid teeth of S.	heterochaete. I have been calling this S.	cornuta is possible, needs more
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-19	ANNE	Syllis heterochaeta	25-Sep-20	Polychaeta	O-05	1	Syllis sp.		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-17	ANNE	Syllis hyperioni	25-Sep-20	Polychaeta	N-12	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-9	ANNE	Tenonia priops	28-Sep-20	Polychaeta	K-01	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-14	ANNE	Terebellides californica	25-Sep-20	Polychaeta	K-11	1	Agreed		
EcoAnalysts	Wood LDWG Consulting	2020	8135.1-15	ANNE	Terebellides reishi	25-Sep-20	Polychaeta	N-08	1	Agreed		