APPENDIX F. FIELD FORMS, FIELD NOTES, AND NAVIGATION NOTES

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1 A
Retrieval Time: 0940		Start coordinates	X: 47 33.948
Collection method/Effort #: Crab Trap / 1			Y: 122 20.926
Weather: Overcast, clear, no wind, 60-70° F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0710			
4 C. gracilis			
1 C. magister			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-A-CT01-SC-012	SC	~~185~~ 116	185.7	M
SC-013		116	253.3	M
SC-014		116	267.2	M
SC-015		112	~~336~~ 236.4	M
DC-004	dungeness	169	7400	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1 A
Retrieval Time: 0942		Start coordinates	X: 47 33.948
Collection method/Effort #: ~~Fish Trap / 1~~ Shrimp trap 1			Y: 122 20.926
Weather: overcast, clear, no wind, 60-70°F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0710			
3 C. gracilis			
2 Staghorn Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-A-STO1-SC-016	slender	100	180.8	M
SC-017	"	111	233	M
SC-018	"	104	198	M
PS-069	PS	172	72.4	
PS-070	"	171	56.8	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1A
Retrieval Time: 0957		Start coordinates	X: 47 33.981
Collection method/Effort #: Crab trap / 2			Y: 122 20.939
Weather: Overcast, clear, no wind 60-70°F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0745			
2 C. gracilis			
1 C. magister			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-A-CT02-DC001	DC	182	~~182~~ >400	male
CT02-SC006	SC	99	168.5	male
CT02-SC007	SC	94	148.5	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1A
Retrieval Time: 0954		Start coordinates	X: 47 33.981
Collection method/Effort #: ~~Fish~~ Shrimp Trap / 2			Y: 122 20.939
Weather: overcast, clear, no wind 60-70°F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0745			
2 Staghorn Sculpin			
3 C. gracilis			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-A-ST02-SC-009	SC	105	203.6	male
SC-010		101	153.7	male
SC-011		108	210.5	male
PS-067	PS	194	86.3	
PS-068	PS	187	83.0	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1B
Retrieval Time: 1009		Start coordinates	X: 4733.897
Collection method/Effort #: Crab trap / 3			Y: 122 20.822
Weather: overcast, clear, No wind, 60-70°F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0722			
2 C. productus			
1 C. magister			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-B-CT03-RC-003	RC	122	243.8	female
RC-004	RC	140	314.8	female
DC-003	DC	198	7400	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1B
Retrieval Time: 1006		Start coordinates	X: 47 33.897
Collection method/Effort #: ~~Fish~~ Shrimp Trap / 3			Y: 122 20.822
Weather: Overcast, clear, no wind, 60-70°		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0722 1 Gravelly			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-B-ST03-SC-008	SC	96	155	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1B
Retrieval Time: 1026		Start coordinates	X: 47 33.980
Collection method/Effort #: Crab trap /4			Y: 122 20.833
Weather: Overcast, clear, No wind, 60-70°F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0728			
1 C. productus			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-B-CT04-RC-001	RC	136	319.5	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1B
Retrieval Time: 1020		Start coordinates	X: 47 33.980
Collection method/Effort #: ~~Fish~~ shrimp trap / 4			Y: 122 20.833
Weather: overcast, clear, no wind 60-70°		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0728			
1 C. gracilis			
1 C. productus			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-B-ST04-SC-005	SC	99	185.5	male
LDW-TI-B-ST04-RC-002	RC	179	~~179~~ 74.00	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1C
Retrieval Time: 1033		Start coordinates	X: 47 33.688
Collection method/Effort #: Crab trap / 5			Y: 122 20.804
Weather: overcast, clear, No wind, 60-70° F		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0750			
No target species caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
Ø				

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	i C
Retrieval Time: 1035		Start coordinates	X: 47 33-688
Collection method/Effort #: ~~Fish~~ Shrimp trap / 5			Y: 122 20.804
Weather: Same		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0750			
2 Staghorn Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-C-ST05-PS-65	PS	211	153.4	
" PS-066	PS	~~#~~ 155	44.4	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1 C
Retrieval Time: 1044		Start coordinates	X: 47 33.587
Collection method/Effort #: Crab trap /6			Y: 122 20.756
Weather: Same		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0753			
1 C. magister			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-C-CT06-DC-002	DC	200	>400	male

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1C
Retrieval Time: 1042		Start coordinates	X: 47 33.587
Collection method/Effort #: ~~Fish~~ shrimp Trap / 6			Y: 122 20.756
Weather: Same		End coordinates	X: N/A
Sampler: RAE			Y: N/A
Comments: Deployment time 0753			
4 C. gracilis			
1 Staghorn Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-C-ST06-SC-01	slender crab	91	125.3	male
SC02		91	163.2	male
SC03		106	226.4	male
SC-04		89	133.3	male
PS-04	PS	198	79.8	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1 D
Retrieval Time: 1121		Start coordinates	X: 47 33.761
Collection method/Effort #: Crab trap/7			Y: 122 20.764
Weather: Same		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0815			
1 C. gracilis			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
~~LDW-TI-D-CT07-SC-041~~		99	150.9	male
LDW-TI-D-CT07-SC-041				

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-30-04		Sampling area:	1D
Retrieval Time: 1119		Start coordinates	X: 47 33.761
Collection method/Effort #: ~~Fish~~ Shrimp Trap / 7			Y: 122 20.764
Weather: Same		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0815			
3 Staghorn Sculpin			
3 C. gracilis			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-D-ST07-SC-037	slender	111	209.7	M
SC-038	"	97	164.8	M
SC-039	"	96	107.6	M
PS-071	PS	157 ~~[illegible]~~	40.7	
PS-072	"	183	82.9	
PS-073	"	180	71.6	

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1D
Retrieval time: 1133	Start coordinates: X: 47 33.731
Collection method/Effort #: Crab trap / 8	Y: 122 20.751
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A
Comments: Deployment time 0822 2 C. gracilis	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-TI-D-CT08-SC-035	103	214.3		m
" SC-036	99	145.7		m

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 08-30-04	Sampling area: 1D
Retrieval time: 1132	Start coordinates: X: 47 33.731 Y: 122 20.751
Collection method/Effort #: ~~Fish~~ shrimp trap / 8	
Weather: Sunne	End coordinates: X: N/A Y: N/A
Sampler: RAC	

Comments: Deployment time 0822
7 C. gracilis
4 staghorn Sculpin

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-TI-D-~~ST~~08-SC-042	91	129.9	M	
SC-043	93	138.1	M	
SC-044	99	157.0	M	
SC-045	97	149.3	M	
SC-046	100	183.1	M	
SC-047	94	148.0	M	
SC-048	91	118.5	M	
PS-078 ~~PS-088~~	188	12.6		
PS-079	174	67.7		
PS-080	188	78.9		
PS-081	157	50		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1E
Retrieval time: 1144	Start coordinates: X: 47 33.485
Collection method/Effort #: Crab trap / 9	Y: 122 20.697
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A

Comments: Deployment Time 0830
No target Species Caught

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
Ø				

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1E
Retrieval time: 1145	Start coordinates: X: 47 33.485
Collection method/Effort #: ~~Fish~~ shrimp trap / 9	Y: 122 20.697
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A

Comments: Deployment time 0830
6 C. gracilis

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-TI-E-ST09-SC-021	103	189.9	M	
SC-022	102	182.7	M	
SC-023	103	198.8	M	
SC-024	100	189.9	M	
SC-025	100	185.3	M	
SC-026	113	234.2	M	

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1E
Retrieval time: 1152	Start coordinates: X: 4733.391
Collection method/Effort #: Crab trap / 10	Y: 122 20.632
Weather: Same	End coordinates: X: N/A
Sampler: RAE	Y: N/A

Comments: Deployment time 0835
No target species caught

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
Ø				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 08-30-04	Sampling area: 1E
Retrieval time: 1154	Start coordinates: X: 47 33.391
Collection method/Effort #: ~~Fish~~ Shrimp trap / 10	Y: 122 20.632
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A

Comments: Deployment time 0835
3 C. gracilis
4 Staghorn Sculpin

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-TIE-ST10-PS-074	102	79.8		
PS-075	159	57.9		
PS-076	158	45.2		
PS-077	159	44.3		
SC-049	102	176.1	M	
SC-050	93	138.4	M	
SC-051	95	164.4	M	

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 08-30-04	Sampling area: 1F
Retrieval time: 1202	Start coordinates: X: 47 33.519
Collection method/Effort #: Crab trap / 11	Y: 122 20.643
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A
Comments: Deployment time 0840 2 C. gracilis	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-F-CT11-SC-052	100	165.5	M	
" SC-053	96	150.3	M	

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1F
Retrieval time: 1205 Shrimp	Start coordinates: X: 47 33.519
Collection method/Effort #: ~~Fish~~ trap / 11	Y: 122 20.643
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A
Comments: Deployment time 0840	
2 C. gracilis	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-TIF-ST11-SC-019	99	153.3	M	
~~LDW~~ " SC-020	102	189.0	M	
" PS-002	140	37.9		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1F
Retrieval time: 1220	Start coordinates: X: 4733.422
Collection method/Effort #: Crabtrap / 12	Y: 122 20.634
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A

Comments: Deployment time 0843
1 C. gracilis

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-TI-F-CT12-SC-040	98	162.5	M	

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 08-30-04	Sampling area: 1F
Retrieval time: 1222	Start coordinates: X: 47 33.422
Collection method/Effort #: ~~Fish~~ shrimp trap / 12	Y: 122 20.534
Weather: Same	End coordinates: X: N/A
Sampler: RAC	Y: N/A

Comments: Deployment time 0843
8 C. gracilis

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW TI-F-ST12-SC-027	105	199.5	M	
028	97	153	M	
029	96	140.5	M	
030	96	122.1	M	
031	105	191.2	M	
032	103	214.2	M	
033	103	195.6	M	
034	105	142.0	M	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1010		Start coordinates	X: 47 32.671
Collection method/Effort #: Crab trap / 13			Y: 122 20.264
Weather: clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0758			
3 Sleeves			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-C13-SC-1	SC	101	179.2	♂ (male)
SC-2	↓	115	229.	♂ one claw
SC-3	↓	96	140.9	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1012		Start coordinates	X: 47 32.671
Collection method/Effort #: Shrimp Trap / 13			Y: 122 20.264
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0758			
3 Sculpin			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-S13-SC-4	SC	99	160.8	m
PS-37	PS	213	107.5	
PS-38	↓	153	41.1	
PS-39	↓	180	84.2	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1021		Start coordinates	X: 47 32.767
Collection method/Effort #: Crabtrap / 14			Y: 122 20.316
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0801			
1 red rock			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-C14-SC-5	SC	107	228.9	♂ male
RC-1	RC	133	330.5	♀ female

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1023		Start coordinates	X: 4732.767
Collection method/Effort #: Shrimp trap /14			Y: 122 20.316
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0801			
6 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-S14-PS-40	PS	169	60	
PS-41	↓	180	68.8	
PS-42		151	43.3	
PS-43		141	31.0	
PS-44		140	29.4	
PS-45		151	40.7	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1030		Start coordinates	X: 47 32.835
Collection method/Effort #: Crab trap / 15			Y: 122 20.281
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0808			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LOW-T2-B-C15-SC-6	SC	93	147.1	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1037		Start coordinates	X: 47 32.835
Collection method/Effort #: Shrimp trap / 15			Y: 122 20.281
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0808			
No target Species caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1040		Start coordinates	X: 47 32.770
Collection method/Effort #: Crab trap /16			Y: 122 20.215
Weather: Sunny, clear		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0813			
No target species caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1042		Start coordinates	X: 47 32.770
Collection method/Effort #: Shrimp trap / 16			Y: 122 20.215
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0813 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-B-S16-SC-7	SC	100	151.2	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1050		Start coordinates	X: 47 32.575
Collection method/Effort #: Crab trap /17			Y: 122 20.159
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0820			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-C-C17SC-8	SC	107	199	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1048		Start coordinates	X: 47 32.575
Collection method/Effort #: Shrimp trap / 17			Y: 122 20.159
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0820			
2 Sculpin			
5 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-C-S17-SC-9	SC	90	116.9	♂
SC-10	SC	97	166.9	♂
SC-11	SC	96	130.9	♂
SC-12	SC	101	172.1	♂
SC-13	SC	94	132.2	♂
PS-46	PS	194	82.6	
PS-47	PS	148	41.3	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1059		Start coordinates	X: 47 32.479
Collection method/Effort #: Crab trap /18			Y: 122 20.024
Weather: clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment time 0825			
No target Species Caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1101		Start coordinates	X: 47 32.479
Collection method/Effort #: Shrimp trap / 18			Y: 122 20.024
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0825			
1 sculpin			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-C-518-PS-48	PS	145	30.5	
" " SC-14	SC	90	116.8	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1221		Start coordinates	X: 47 32.538
Collection method/Effort #: Crab trap / 19			Y: 122 19.965
Weather: clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0840			
No target species caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	08-31-04	Sampling area:	2D
Retrieval Time:	1224	Start coordinates	X: 47 32.538
Collection method/Effort #:	Shrimp trap/19		Y: 122 19.965
Weather:	clear, Sunny	End coordinates	X: N/A
Sampler:	RAC		Y: N/A
Comments:	Deployment time 0840 8 sculpin 4 slender		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-D-S19-SC-15	SC	93	143.9	♂
SC-16		90	130.4	♂
SC-17		109	173.5	♂
SC-18		94	145.3	♂
PS-49	PS	188	94.1	
PS-50		193	81.2	
PS-51		195	93.4	
PS-52		188	78.0	
PS-53		170	60.5	
PS-54		131	27.1	
PS-55		128	24.6	
PS-56		129	23.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1234		Start coordinates	X: 47 32.602
Collection method/Effort #: Crab trap /20			Y: 122 20.139
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0845			
No target species caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1235		Start coordinates	X: 47 32.602
Collection method/Effort #: Shrimp trap / 20			Y: 122 20.139
Weather: Clear / Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0845			
1 sculpin			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-D-520 SC-19	SC	92	137.1	♂
↓ PS-57	PS	219	146.8	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1243		Start coordinates	X: 47 32.370
Collection method/Effort #: Crab trap / 21			Y: 122 19.858
Weather: clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0850 2 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-C21-SC-20	SC	102	190.5	♂
↓ SC-21	SC	94	144.3	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1245		Start coordinates	X: 47 32.370
Collection method/Effort #: Shrimp Trap / 21			Y: 122 19.858
Weather: clear sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0850			
3 Sculpin			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-S21PS-58	PS	172	164.6	
PS-59	↓	161	42.7	
PS-60	↓	129	21.8	
SC-22	SC	99	160.2	♂

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1252		Start coordinates	X: 47 32.397
Collection method/Effort #: Crab trap / 22			Y: 122 19.907
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0853			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-C22-SC-23	SC	102	175.7	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1253		Start coordinates	X: 47 32.397
Collection method/Effort #: Shrimp trap / 22			Y: 122 19.907
Weather: Sunny, clear		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0853			
2 sculpin			
1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-S22 SC-24	SC	103	189.7	male
PS-61	PS	177	58.9	
PS-62	↓	159	40.2	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1300		Start coordinates	X: 47 32.391
Collection method/Effort #: crab trap / 23			Y: 122 19.823
Weather: clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0856 1 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-C23-SC-25	SC	92	138.9	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1304		Start coordinates	X: 47 32.391
Collection method/Effort #: ~~Crab~~ Shrimp Trap /23			Y: 122 19.823
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0856 7 slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-S23-SC-26	SC	93	147.7	m
SC-27		92	144.9	m
SC-28		89	128.9	m
SC-29		91	133.1	m
SC-30		94	150.2	m
SC-31		94	126.9	m
SC-32		101	173.2	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1307		Start coordinates	X: 47 32.354
Collection method/Effort #: crab trap / 24			Y: 122 19.741
Weather: clear, sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0902			
No target spp. caught			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1309		Start coordinates	X: 4732.354
Collection method/Effort #: Shrimp trap /24			Y: 122 19.741
Weather: Clear, Sunny		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 0902			
3 sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-S24-PS-63	PS	164	51.7	
" " PS-64	PS	140	27.6	
" " PS-65	PS	145	29.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1435		Start coordinates	X: 4733.970
Collection method/Effort #: Crab trap / 25			Y: 122 20.932
Weather: Cloudy, sunbreaks, light rain		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 1145			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-A-CT25-SC-110		99	180	m
SC-111		110	259.8	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-09		Sampling area:	1A
Retrieval Time: 1437		Start coordinates	X: 47 33.970
Collection method/Effort #: Shrimp trap / 25			Y: 122 20.932
Weather: ~~Sunny~~ Sun, clouds		End coordinates	X: N/A
Sampler: RAC			Y: N/A
Comments: Deployment Time 1145			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-A-ST25-PS-97		218	135.7	
PS-98		182	76.2	
PS-99		180	64	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1448		Start coordinates	X: 47 33.780
Collection method/Effort #: CRAB TRAP # 26			Y: 122 20.856
Weather: SUN/clouds		End coordinates	X: NA
Sampler: RAC			Y: NA
Comments: Deployed 1150			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
Not entered No ID.	S. Crab	95	152	retained for edible meat + hepatopancreas weight.
LDW-TI-A-CT26-DC-26		198	>400	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1A
Retrieval Time:	1448	Start coordinates	X: 47 33.780
Collection method/Effort #:	SHRIMP TRAP 26		Y: 122 20.856
Weather:	SUN/ clouds	End coordinates	X: NA
Sampler:	RAC		Y: NA
Comments:	Deployed 1150		

	SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓	LDW-T1-A-ST26-SC-97		94	155.7	m
✓	SC-98		106	203.4	m
✓	SC-99		104	211.7	M
✓	SC-100		101	182.8	m
✓	SC-101		96	156.5	m
✓	SC-102		102	194.5	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1B
Retrieval Time: 1458		Start coordinates	X: 47 33.853
Collection method/Effort #: CRAB TRAP 27			Y: 122 20.808
Weather: SUN/clouds		End coordinates	X: NA
Sampler: RAC			Y: NA
Comments: Deployed 1159			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-B-CT27-SC-107		98	159	m
✓ SC-108		109	220.2	m
✓ DC-07		162	>400	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	01-01-04	Sampling area:	1B
Retrieval Time:	1500	Start coordinates	X: 47 33.853
Collection method/Effort #:	Shrimp TRAP 27		Y: 122 20.808
Weather:	Sun/clouds	End coordinates	X: NA
Sampler:	RAC		Y: NA
Comments:	Deployed 1159		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-B-ST27-	PS-95	188	88.8	
✓ PS-96		179	67.8	
✓ SC-109		105	211	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-09		Sampling area:	1B
Retrieval Time: 1508		Start coordinates	X: 47 33.991
Collection method/Effort #: CRAB TRAP 28			Y: 122 20.865
Weather: SUN/clouds		End coordinates	X: NA
Sampler: RAC			Y: NA
Comments: Deployed 1207			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-B-CT28-DC-08		170	>400	♀
DC-09		172	>400	♀
DC-10		152	>400	♂
DC-11		170	>400	♂
DC-12		171	>400	♂
DC-13		170	>400	♂
DC-14		176	>400	♂
DC-15		162	>400	♀
DC-16		168	>400	♂
DC-17		164	>400	♂
DC-18		163	>400	♂
DC-19		198	>400	♂

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1B
Retrieval Time: 1511		Start coordinates	X: 47 33.991
Collection method/Effort #: SHRIMP TRAP 28			Y: 122 20.865
Weather: SUN/clouds		End coordinates	X: NA
Sampler: RAC			Y: NA
Comments: Deployed 1207			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-B-ST28-SC-78		104	189.7	M
✓ AS-86		147	37.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1C
Retrieval Time:	1526	Start coordinates	X: 47 33.717
Collection method/Effort #:	CRAB TRAP 29		Y: 122 20.815
Weather:	SUN/clouds	End coordinates	X:
Sampler:	RAC		Y:
Comments:	Deployed 1215		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-C-CT29-SC-63		119	302.1	m
SC-64		104	175.3	m
SC-65		98	190	m
SC-66		102	170.3	m
SC-67		99	179.6	m
RC-05		164	>400	m
RC-06		140	370.9	♀
DC-05		190	>400	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	IC
Retrieval Time:	1528	Start coordinates	X: 4733.717
Collection method/Effort #:	SHRIMP TRAP 29		Y: 122 20.815
Weather:	SUN/clouds	End coordinates	X:
Sampler:	RAC		Y:
Comments:	Deployed 1215		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-C-ST29-PS-87		181	65.6	
PS-88		176	55.0	
SC-79		96	153.5	m
SC-80		94	125.7	m
SC-81		99	174.0	m
PC-07		118	220.9	f

1 of 2

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:		Sampling area:	IC
Retrieval Time:	09-01-04 1535	Start coordinates	X: 47 33.655
Collection method/Effort #:	CRAB TRAP 30		Y: 122 20.785
Weather:	SUN/clouds	End coordinates	X: NA
Sampler:	RAC		Y: NA
Comments:	Deployed 1220		
	Pg 1 of 2		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-C-CT30-SC-85		100	199.8	M

Pg. 2 of 2. (1st page in other cooler)

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	1C
Retrieval Time: 1535		Start coordinates	X:
Collection method/Effort #: CT 30			Y:
Weather:		End coordinates	X:
Sampler:			Y:
Comments:			
Page 2 of 2			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-C-CT30-DC-20		183	>400	m
✓ DC-21		179	>400	m
✓ DC-22		164	>400	m
✓ DC-23		171	>400	m
✓ DC-24		135	307.6	m
✓ DC-25		170	>400	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1C
Retrieval Time:	1540	Start coordinates	X: 47 33.655
Collection method/Effort #:	SHRIMP TRAP 30		Y: 122 20.785
Weather:	SUN/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1220		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-TI-C-ST30-SC-76		106	186.8	M
✓ SC-77		102	210.3	M
✓ PS-85		187	69.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1D
Retrieval Time:	1617	Start coordinates	X: 47 33.741
Collection method/Effort #:	CRAB TRAP 31		Y: 122 20.750
Weather:	Sun/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1250		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-D-CT31-RC-08		179	>400	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1D
Retrieval Time:	1618	Start coordinates	X: 47 33.741
Collection method/Effort #:	SHRIMP TRAP 31		Y: 122 20.750
Weather:	SUN / Clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1250		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TI-D-ST31-PS-89		200	87.6	
PS-90		165	51.0	
PS-91		194	80.8	
PS-92		190	84.2	
PS-93		198	96.4	
PS-94		184	78.8	
SC-103		95	135.2	M
SC-104		96	133.5	M
SC-105		99	192.3	M
SC-106		107	193.7	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1D
Retrieval Time:	1627	Start coordinates	X: 47 33.626
Collection method/Effort #:	CRAB TRAP 32		Y: 122 20.700
Weather:	SUN/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1255		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-D-CT32-SC-86		100	162.7	m
SC-87		108	225.1	m
SC-88		93	136.0	f
SC-89		108	191.2	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1D
Retrieval Time:	1626	Start coordinates	X: 47 33.626
Collection method/Effort #:	SHRIMP TRAP 32		Y: 122 20.700
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1255		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-D-ST32-SC-90		90	146	M
SC-91		103	172.7	M
SC-92		97	164.5	M
SC-93		102	190.1	M
SC-94		100	149.1	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1E
Retrieval Time:	1634	Start coordinates	X: 4733.535
Collection method/Effort #:	CRAB TRAP 33		Y: 12220.722
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1300		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-E-CT33-SC-74		98	158.0	
SC-75		101	182.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1E
Retrieval Time:	1632	Start coordinates	X: 47 33.535
Collection method/Effort #:	SHRIMP TRAP 33		Y: 122 20.722
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1300		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-E-ST33-	SC-68	99	167.8	M
	SC-69	95	144.1	M
	SC-70	107	228.5	M
	SC-71	100	189.6	M
	SC-72	99	161.7	M
	SC-73	102	195.7	M
	PS-83	180	65.6	
	PS-84	164	50.5	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1E
Retrieval Time:	1639	Start coordinates	X: 47 33.456
Collection method/Effort #:	CRAB TRAP 34		Y: 122 20.673
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1307		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
Ø empty				

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1E
Retrieval Time:	1640	Start coordinates	X: 47 33.456
Collection method/Effort #:	SHRIMP TRAP 34		Y: 122 20.673
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1307		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-E-ST34-SC-115		95	150	M
SC-116		91	126.2	M
PS-104		180	58.0	
PS-105		177	54.9	
PS-106		148	31.1	
PS-107		179	57.7	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1F
Retrieval Time:	1645	Start coordinates	X: 47 33.470
Collection method/Effort #:	CRAB TRAP 35		Y: 122 20.616
Weather:	sun/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1312		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
✓ LDW-T1-F-CT35-SC-95		104	214.3	M
✓ SC-96		97	143.8	M
✓ DC-06		165	>400	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1F
Retrieval Time:	1648	Start coordinates	X: 47 33.470
Collection method/Effort #:	SHRIMP TRAP 35		Y: 122 20.616
Weather:	SUN/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1312		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-F-ST35-SC-54		93	160.4	M
SC-55		94	159.3	M
SC-56		104	205.6	M
SC-57		91	145.4	M
SC-58		97	163.0	M
SC-59		92	143.5	M
SC-60		95	147.8	M
SC-61		95	145.3	M
SC-62		94	147.1	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-01-04	Sampling area:	1F
Retrieval Time:	1653	Start coordinates	X: 47 33. ~~470~~ 415
Collection method/Effort #:	CRAB TRAP 36		Y: 122 20. ~~646~~ 446
Weather:	SUN/clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 13~~#~~15		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-F-CT36-SC-82		111	247.3	M
SC-83		106	197.4	M
SC-84		105	192.5	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-07-04	Sampling area:	1F
Retrieval Time:	1654	Start coordinates	X: 47 33.415
Collection method/Effort #:	SHRIMP TRAP 36		Y: 122 20.446
Weather:	SUN / clouds	End coordinates	X: —
Sampler:	RAC		Y: —
Comments:	Deployed 1315		

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T1-F-ST36-PS-100		200	91.2	
PS-101		180	62.8	
PS-102		210	105.2	
PS-103		200	92.5	
SC-112		102	179.1	M
SC-113		90	122.6	M
SC-114		98	170.8	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1146		Start coordinates	X: 47 32.739
Collection method/Effort #: Crab trap 37			Y: 122 20.300
Weather: cloudy, Sun		End coordinates	X: –
Sampler: DAC			Y: –
Comments: Deployment time 0850			
2 Slender 1 Red rock			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-CT037-	SC-57	106	215.8	M
-	SC-58	96	171.2	M
-	RC-3	139	327.9	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1147		Start coordinates	X: 47 32.739
Collection method/Effort #: Shrimp trap 37			Y: 122 20.300
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0850			
3 Slender			
2 (1 is too small)			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-ST037-	SC-55	99	172.3	M
	-SC-56	105	185.1	M
	SC			

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1133		Start coordinates	X: 47 32.645
Collection method/Effort #: Crab trap 38			Y: 122 20.251
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0856 4 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-CT038-	SC-49	93	134.3	M
	-SC-50	106	210.4	M
	-SC-51	104	186.8	M
	-SC-52	95	171.8	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1134		Start coordinates	X: 47 32.645
Collection method/Effort #: Shrimp trap 38			Y: 122 20.251
Weather: Cloudy, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0856 3 Slender 3 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-A-ST038-	SC-53	105	211.1	M
	-SC-54	91	126.0	M
	~~-SC-55~~	~~88~~	~~120.3~~	~~M~~ too small
LDW-T2-A-ST038-	PS-71	176	62.2	
	-PS-72	170	54.7	
	-PS-73	150	45.2	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1158		Start coordinates	X: 47 32.758
Collection method/Effort #: Crab trap 39			Y: 122 20.203
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0903 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-B-CT039-SC-59		104	196.5	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1159		Start coordinates	X: 47 32.758
Collection method/Effort #: Shrimp trap 39			Y: 122 20.203
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0903 No target species captured			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1205		Start coordinates	X: 47 32.799
Collection method/Effort #: Crab trap 40			Y: 122 20.257
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0907 4 Slender 1 Red rock			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-B-CT040-RC-2		126	288.6	F
-SC-42		104	235.2	M
-SC-43		109	253.2	M; missing claw
-SC-44		98	187.1	M
-SC-45		92	149.1	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1206		Start coordinates	X: 47 32.799
Collection method/Effort #: Shrimp trap 40			Y: 122 20.257
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0907 9 Slender 4 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-B-ST040-SC-33	SC	92	48.8	Male
-SC-34		94	165.5	
-SC-35		91	144.2	Male
-SC-36		95	161.8	M
-SC-37		99	154.3	M, missing claw
-SC-38		96	161.7	M
-SC-39		91	148.2	M
-SC-40		93	157.6	M
-SC-41		102	197.2	M
-PS-66		~~197~~	104.8	
-PS-67		182	71.4	
-PS-68		166	73.7	
-PS-69		151	142.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1218		Start coordinates	X: 47 32.595
Collection method/Effort #: Crab trap 41			Y: 122 20.192
Weather: Cloudy, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0913			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-C-CT041-SC-60		96	161.3	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1219		Start coordinates	X: 47 32.595
Collection method/Effort #: Shrimp Trap 41			Y: 122 20.192
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0913 3 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-C-ST041-PS-74		177	57.8	
-PS-75		180	80.4	
-PS-76		185	74.3	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1228		Start coordinates	X: 47 32.547
Collection method/Effort #: Crab trap 42			Y: 122 20.131
Weather: cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0920 No target Species captured			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1230		Start coordinates	X: 47 32.547
Collection method/Effort #: Shrimp Trap 42			Y: 122 20.131
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0920 3 Slender 1 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-12-C-ST042-	SC-46	95	160.0	M
-	SC-47	91	141.9	M
-	SC-48	104	173.6	M, missing claw
-	PS-70	192	92.7	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1330		Start coordinates	X: 47 32.622
Collection method/Effort #: Crab trap 43			Y: 122 20.159
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0937 2 Shrimp			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-D-CT043-SC-73		92	150.5	m
-SC-74		91	124.9	m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1332		Start coordinates	X: 47 32.622
Collection method/Effort #: Shrimp trap 43			Y: 122 20.159
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0937 2 Sculpin 1 Shrimp			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TR-D-ST043-	SC-72	101	182.1	M
	-PS-82	159	46.7	
	-PS-83	124	30.0	abnormally curved spine

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1338		Start coordinates	X: 47 32.530
Collection method/Effort #: Crab Trap 44			Y: 122 19.998
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0943 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-D-CT044-SC-78		90	119.1	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area: 2D	
Retrieval Time: 1340		Start coordinates	X: 47 32.530
Collection method/Effort #: Shrimp trap 44			Y: 122 19.998
Weather: Cloudy, Sun		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment time 0943 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-D-STOUH-PS-85		180	65.4	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1348		Start coordinates	X: 47 32.409
Collection method/Effort #: Crab trap 45			Y: 122 19.930
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0949 1 Sleeper			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-CT045-SC-71		99	179.5	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1350		Start coordinates	X: 47 32.409
Collection method/Effort #: Shrimp Trap 45			Y: 122 19.930
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0949 1 Sculpin 4 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-ST045-	SC-67	91	136.2	M
-	SC-68	101	185	↓
-	SC-69	100	190.3	
-	SC-70	97	163.3	
-	PS-81	209	130.2	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1358		Start coordinates	X: 47 32.305
Collection method/Effort #: Crab trap 46			Y: 122 19.783
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0956 1 Dungeness			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-CT0416-	DC-1	195	>400	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1402		Start coordinates	X: 47 32.305
Collection method/Effort #: Shrimp Trap 46			Y: 122 19.783
Weather: Cloudy, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0956 6 Slender 4 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-E-ST046-	SC-61	91	148.4	M
-	SC-62	90	136.2	M
-	SC-63	103	194.1	M
-	SC-64	101	162.7	M
-	SC-65	96	167.7	M
-	SC-66	99	171.3	M
-	PS-77	196	75.4	
-	PS-78	207	113.0	
-	PS-79	205	94.6	
-	PS-80	177	52.2	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1411		Start coordinates	X: 47 32.371
Collection method/Effort #: Crab trap 47			Y: 122 19.803
Weather: Cloudy / Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1002 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-CT047-SC-77		94	149.7	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1411		Start coordinates	X: 47 32.371
Collection method/Effort #: Shrimp trap 47			Y: 122 19.803
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1002			
1 Sculpin			
2 Slenders			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-ST047-	SC-75	102	178.3	M
	-SC-76	93	121.3	M
	-PS-84	170	62.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1419		Start coordinates	X: 47 32.441
Collection method/Effort #: Crab trap 48			Y: 122 19.899
Weather: Cloudy, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 1008 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1422		Start coordinates	X: 47 32.441
Collection method/Effort #: Shrimp Trap 48			Y: 122 19.899
Weather: cloudy / Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1008			
1 Shrimp			
2 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T2-F-ST048-	PS-86	190	77.9	
LDW-T	PS-87	160	46.5	
	SC-79	104	174.7	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1117		Start coordinates	X: 47 31.956
Collection method/Effort #: Crab Trap 49			Y: 122 19.152
Weather: overcast / Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0800 1 Dungeness			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-CT049	DC-5	179	740.0	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1119		Start coordinates	X: 47 31.956
Collection method/Effort #: Shrimp Trap 49			Y: 122 19.152
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0800			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1124		Start coordinates	X: 47 31.893
Collection method/Effort #: Crab trap 50			Y: 122 19.042
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0807 1 Dungeness			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-CT050	DC-4	157	>400	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1124		Start coordinates	X: 47 31.893
Collection method/Effort #: Shrimp trap 50			Y: 122 19.042
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0807 4 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-ST050	PS-140	195	100.1	
	PS-141	229	141.1	
	PS-142	190	74.1	
	PS-143	172	58.2	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1132		Start coordinates	X: 4731.796
Collection method/Effort #: Crab trap 51			Y: 122 18.891
Weather: overcast, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0812			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1132		Start coordinates	X: 4731.796
Collection method/Effort #: Shrimp trap 51			Y: 122 18.891
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0812 1 Sculpin 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-ST051	SC-5	100	170.8	M
	PS-144	135	33.3	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1139		Start coordinates	X: 47 31.747
Collection method/Effort #: Crab trap 52			Y: 122 18.797
Weather: overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0814			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-CT052-SC-6		90	127.6	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1143		Start coordinates	X: 47 31.747
Collection method/Effort #: Shrimp trap 52			Y: 122 18.797
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0814 1 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-ST052-	PS-145	162	51.4	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1150		Start coordinates	X: 47 31.707
Collection method/Effort #: Crab trap 53			Y: 122 18.722
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0818 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-CT053-SC-9		102	146.6	missing claw, m

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1153		Start coordinates	X: 47 31.707
Collection method/Effort #: Shrimp trap 53			Y: 122 18.722
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0818 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-ST053-	SC-8	98	164.4	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1156		Start coordinates	X: 47 31,627
Collection method/Effort #: Crab trap 54			Y: 122 18,593
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time. 0821 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-CT054-	SC-10	104	178.7	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1157		Start coordinates	X: 47 31.627
Collection method/Effort #: Shrimp trap 54			Y: 122 18.593
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0821			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1222		Start coordinates	X: 47 31.631
Collection method/Effort #: Crab trap 55			Y: 122 18.652
Weather: overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0853			
1 Dungeness			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-CT055	DC-7	173	>400	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1223		Start coordinates	X: 47 31.631
Collection method/Effort #: Shrimp trap 55			Y: 122 18.652
Weather: overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0853			
1 Slander			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-ST055-SC-7		91	131.5	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1228		Start coordinates	X: 47 31.699
Collection method/Effort #: Crab trap 56			Y: 122 18.762
Weather: overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0859			
1 Dungeness			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-CT056	DC-6	166	740D	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1229		Start coordinates	X: 47 31.699
Collection method/Effort #: Shrimp trap 56			Y: 122 18.762
Weather: Overcast / Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0859			
No target Species Captured			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1231		Start coordinates	X: 4731.728
Collection method/Effort #: Crab trap 57			Y: 122 18.810
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0903			
No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1233		Start coordinates	X: 47 31.728
Collection method/Effort #: Shrimp trap 57			Y: 122 18.810
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0903 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	~~3A~~ 3C
Retrieval Time: 1238		Start coordinates	X: 47 31.760
Collection method/Effort #: ~~Set~~ Crab trap 58			Y: 122 18.886
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0907			
No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1236		Start coordinates	X: 47 31.760
Collection method/Effort #: Shrimp trap 58			Y: 122 18.886
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0907			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1243		Start coordinates	X: 47 31.856
Collection method/Effort #: Crab trap 59			Y: 122 19.053
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0911			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1244		Start coordinates	X: 4731.856
Collection method/Effort #: Shrimp trap 59			Y: 12219.053
Weather: overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0911			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1247		Start coordinates	X: 47 31.917
Collection method/Effort #: Crab trap 60			Y: 122 19.159
Weather: Overcast, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0916 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1248		Start coordinates	X: 47 31.917
Collection method/Effort #: Shrimp trap 60			Y: 122 19.159
Weather: Overcast, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0916			
4 Sculpin			
3 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-A-ST060-	SC-2	95	146.1	M
-	SC-3	103	153.2	missing left claw, M
-	SC-4	99	151.4	M
-	PS-136	190	85.5	
-	PS-137	~~131~~ 136	~~27.0~~ 27.2	
-	PS-138	132	24.3	
-	PS-139	145	40.8	
* There is a duplicate DC-1 on 9/1/04 from TR 69 sub area E				
Should be relabled as DC-3				

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1255		Start coordinates	X: 47 31.073
Collection method/Effort #: Crab Trap 61			Y: 122 18.388
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0923			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-				

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1255		Start coordinates	X: 47 31.073
Collection method/Effort #: Shrimp Trap 61			Y: 122 18.388
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0923			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-S61-	SC-1	99	143.9	(M) missing right claw + 2nd left leg
-	SC-2	103	129.7	(M) missing both claws + 2 legs
-				

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1307		Start coordinates	X: 47 30.999
Collection method/Effort #: Crab Trap 62			Y: 122 18.368
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0927			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1307		Start coordinates	X: 47 30.999
Collection method/Effort #: Shrimp trap 62			Y: 122 18.368
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0927			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1310		Start coordinates	X: 47 31.015
Collection method/Effort #: Crab trap 63			Y: 122 18.312
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0930			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1311		Start coordinates	X: 47 31.015
Collection method/Effort #: Shrimp trap 63			Y: 122 18.312
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0930			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-563-	PS-165	174	48.9	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1317		Start coordinates	X: 47 31.106
Collection method/Effort #: Crab Trap 64			Y: 122 18.331
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0933			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
move to SHIMD → ~~LDW-T4-B-SC64~~	~~SC-3~~	~~103~~	~~162.2~~	~~missing both claws~~
LDW-T4B-C64	DC-6	154.5	>400	M

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1317		Start coordinates	X: 47 31.106
Collection method/Effort #: Shrimp Trap 64			Y: 122 18.331
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0933			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-S64-	SC-3	103	162.2	missing both claws, m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1325		Start coordinates	X: 47 30.814
Collection method/Effort #: Crab trap 65			Y: 122 18.293
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0939			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1325		Start coordinates	X: 47 30.814
Collection method/Effort #: Shrimp trap 65			Y: 122 18.293
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0939			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1330		Start coordinates	X: 47 30.757
Collection method/Effort #: Crab trap 66			Y: 122 18.262
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0943			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1331		Start coordinates	X: 47 30.757
Collection method/Effort #: Shrimp trap 66			Y: 122 18.262
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0943			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1334		Start coordinates	X: 47 30.813
Collection method/Effort #: Crab Trap 67			Y: 122 18.243
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1023 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	40
Retrieval Time: 1335		Start coordinates	X: 47 30.813
Collection method/Effort #: Shrimp trap 67			Y: 122 18.243
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1023 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1339		Start coordinates	X: 47 30.764
Collection method/Effort #: Crab trap 68			Y: 122 18.171
Weather: Sunny		End coordinates	X: -
Sampler: KAC			Y: -
Comments: Deployment Time 1025 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1340		Start coordinates	X: 47 30.764
Collection method/Effort #: Shrimp trap 68			Y: 122 18.171
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1025			
No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1345		Start coordinates	X: 47 30.730
Collection method/Effort #: Crab trap 69			Y: 122 17.972
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1029, No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1345		Start coordinates	X: 47 30.730
Collection method/Effort #: Shrimp trap 69			Y: 122 17.972
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1029			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-S69-	PS-166	195	75.4	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1351		Start coordinates	X: 47 30.714
Collection method/Effort #: Crab trap 70			Y: 122 17.910
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1032 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1352		Start coordinates	X: 47 30.714
Collection method/Effort #: Shrimp trap 70			Y: 122 17.910
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1032			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-S70-PS-168		117	13.0	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1356		Start coordinates	X: 47 30.691
Collection method/Effort #: crab trap 71			Y: 122 17.856
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1034 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1357		Start coordinates	X: 47 30.691
Collection method/Effort #: Shrimp trap 71			Y: 122 17.856
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1034			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-S71-PS-167		137	19.7	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1402		Start coordinates	X: 47 30.649
Collection method/Effort #: Crab trap 72			Y: 122 17.761
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1038 No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1403		Start coordinates	X: 47 30.649
Collection method/Effort #: Shrimp trap 72			Y: 122 17.761
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 1038 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.092
Collection method/Effort #: Crab trap 73			Y: 122 18.397
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0807			
No Target Species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.092
Collection method/Effort #: Shrimp trap 73			Y: 122 18.397
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0807			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.043
Collection method/Effort #: Crab trap 74			Y: 122 18.373
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0813			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.043
Collection method/Effort #: Shrimp Trap 74			Y: 122 18.373
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0813			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4B
Retrieval Time: 1105		Start coordinates	X: 47 31.112
Collection method/Effort #: Crab trap 75			Y: 122 18.302
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0817			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4B
Retrieval Time: 1107		Start coordinates	X: 47 31.112
Collection method/Effort #: Shrimp trap 75			Y: 122 18.302
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time ~~0817~~ 0817			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4B
Retrieval Time: 1110		Start coordinates	X: 47 31.104
Collection method/Effort #: Crab trap 7b			Y: 122 18.348
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0822			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4B
Retrieval Time: 1112		Start coordinates	X: 4731,104
Collection method/Effort #: Shrimp trap 76			Y: 122 18,348
Weather: Sunny		End coordinates	X: –
Sampler: RAE			Y: –
Comments: Deployment Time 0822 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4C
Retrieval Time: 1118		Start coordinates	X: 47 30.832
Collection method/Effort #: Crab trap 77			Y: 122 18.302
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0831			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4C
Retrieval Time: 1119		Start coordinates	X: 47 30.832
Collection method/Effort #: Shrimp trap 77			Y: 122 18.302
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0831 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4C
Retrieval Time: 1127		Start coordinates	X: 47 30.855
Collection method/Effort #: Crab trap 78			Y: 122 18.315
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0835 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4C
Retrieval Time: 1123		Start coordinates	X: 47 30.855
Collection method/Effort #: Shrimp trap 78			Y: 122 18.315
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0835 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4D
Retrieval Time: 1133		Start coordinates	X: 47 30.792
Collection method/Effort #: Crab trap 79			Y: 122 18.224
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0909 No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4D
Retrieval Time: 1131		Start coordinates	X: 47 30,792
Collection method/Effort #: Shrimp trap 79			Y: 122 18,224
Weather: Sunny		End coordinates	X: =
Sampler: RAL			Y:
Comments: Deployment time 0909 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4D
Retrieval Time: 1138		Start coordinates	X: 47 30.835
Collection method/Effort #: Crab trap 80			Y: 122 18.250
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0912			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4D
Retrieval Time: 1138		Start coordinates	X: 47 30.835
Collection method/Effort #: Shrimp Trap 80			Y: 122 18.250
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0912			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1148		Start coordinates	X: 47 30.735
Collection method/Effort #: Crab trap 81			Y: 122 17.975
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0917 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1151		Start coordinates	X: 47 30.735
Collection method/Effort #: Shrimp trap 81			Y: 122 17.975
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: 2 Sculpin			
Deployment Time 0917			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-STB1-PS-169		135	24.4	
–	PS-170	126	19.0	

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FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1155		Start coordinates	X: 47 30.724
Collection method/Effort #: Crab trap 82			Y: 122 17.940
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0920 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1156		Start coordinates	X: 47 30.724
Collection method/Effort #: Shrimp trap 82			Y: 122 17.940
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0920 1 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-ST082-PS-171		129	22.6	

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FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1200		Start coordinates	X: 47 30.711
Collection method/Effort #: Crab trap 83			Y: 122 17.898
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0924 No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1201		Start coordinates	X: 47 30.711
Collection method/Effort #: Shrimp trap 83			Y: 122 17.898
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0924 \ Shiner			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TM-E-ST083-	SS-122	145	29.5	

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FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1207		Start coordinates	X: 47 30.691
Collection method/Effort #: Crab trap 84			Y: 122 17.863
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0927 No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1207		Start coordinates	X: 47 30.691
Collection method/Effort #: Shrimp trap 84			Y: 122 17.863
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: 2 Sculpin Deployment time 0927			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-E-STDBY-	PS-172	169	53.5	
	PS-173	134	26.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3A
Retrieval Time: 1309		Start coordinates	X: 47 31.972
Collection method/Effort #: Crab trap 85			Y: 122 19.252
Weather: overcast, drizzle, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1035 \ Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-A-GBS-	SC-17	94	140.2	(M) missing 2 (L) walking leg

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3A
Retrieval Time: 1309		Start coordinates	X: 47 31.972
Collection method/Effort #: Shrimp trap 85			Y: 122 19.252
Weather: overcast, drizzle / Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1035 2 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-A-S85-	PS-157	201	95.4	
	PS-158	180	73.4	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3A
Retrieval Time: 1318		Start coordinates	X: 47 31.867
Collection method/Effort #: Crab Trap 86			Y: 122 19.071
Weather: overcast, drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1041 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-A-C86-SC-16		104	205	(M)

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3A
Retrieval Time: 1319		Start coordinates	X: 47 31.867
Collection method/Effort #: Shrimp trap 86			Y: 122 19.071
Weather: overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1041			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3B
Retrieval Time: 1323		Start coordinates	X: 47 31.919
Collection method/Effort #: Crab trap 87			Y: 122 19.086
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1047 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-C87 -	SC-12	104	179.2	missing (L) claw, m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3B
Retrieval Time: 1324		Start coordinates	X: 47 31.919
Collection method/Effort #: Shrimp trap 87			Y: 122 19.086
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1047			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-S87-SC-13		93	135.1	missing (R) claw (M)

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3B
Retrieval Time: 1330		Start coordinates	X: 47 31.991
Collection method/Effort #: crab Trap 88			Y: 122 19.212
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1051 1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-C88-	SC-14	96	168.8	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3B
Retrieval Time: 1330		Start coordinates	X: 47 31.991
Collection method/Effort #: Shrimp trap 88			Y: 122 19.212
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1051 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3C
Retrieval Time: 1337		Start coordinates	X: 47 31.787
Collection method/Effort #: Crab trap 89			Y: 122 18.926
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1057 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3C
Retrieval Time: 1339		Start coordinates	X: 4 7 31.787
Collection method/Effort #: Shrimp trap 89			Y: 122 18.926
Weather: Overcast, Drizzle, sun		End coordinates	X: -
Sampler: RAC			Y:
Comments: Deployment Time 1057 No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
		Sampling area:	3C
Date: 09-09-04		Start coordinates	X: 47 31.723
Retrieval Time: 1346			Y: 122 18.813
Collection method/Effort #: Crab Trap 90		End coordinates	X: -
Weather: Overcast, Drizzle, Sun			Y: -
Sampler: RAC			
Comments: Deployment Time 1100 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3C
Retrieval Time: 1343		Start coordinates	X: 47 31.723
Collection method/Effort #: Shrimp Trap 90			Y: 122 18.813
Weather: Overcast, Drizzle, Sun		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1100 4 Sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-C-S90-	PS-159	184	78	
	PS-160	183	67.8	
	PS-161	163	58.4	
	PS-162	172	63.9	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3D
Retrieval Time: 1352		Start coordinates	X: 47 31.832
Collection method/Effort #: Crab trap 91			Y: 122 18.941
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1105			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3D
Retrieval Time: 1354		Start coordinates	X: 47 31.832
Collection method/Effort #: Shrimp trap 91			Y: 122 18.941
Weather: overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1105			
13 lender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-S91-SC-15		90	121.4	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3D
Retrieval Time: 1402		Start coordinates	X: 47 31.743
Collection method/Effort #: Crab trap 92			Y: 122 18.776
Weather: overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1110			
1 Dung			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-C92-	DGN02	171	~~1400~~	(M) missing 2 front legs
	SC-21			

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3D
Retrieval Time: 1403		Start coordinates	X: 47 31.743
Collection method/Effort #: Shrimp trap #92			Y: 122 18.776
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1110			
2 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-S92-	SC-20	97	150.0	(ii) missing 2 frnt walking leg
	SC-21	101	163.0	(M)

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3E
Retrieval Time: 1410		Start coordinates	X: 47 31.679
Collection method/Effort #: Crab trap 93			Y: 122 18.741
Weather: Overcast, Drizzle, sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1114 No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3E
Retrieval Time: 1412		Start coordinates	X: 47 31.679
Collection method/Effort #: Shrimp trap 93			Y: 122 18.741
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAe			Y: –
Comments: Deployment Time 1114 No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3E
Retrieval Time: 1416		Start coordinates	X: 47 31.645
Collection method/Effort #: Crab trap 94			Y: 122 18.700
Weather: Overcast, Drizzle, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1120			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
more ~~LDW-TB-E-S94~~	~~SC-18~~	~~90~~	~~116.4~~	
	~~SC-19~~			

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3E
Retrieval Time: 1418		Start coordinates	X: 47 31.645
Collection method/Effort #: Shrimp trap 94			Y: 122 18.700
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1120 2 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-S94	SC-18	90	116.4	(M)
	SC-19	94	141.2	(M) missing (L) rear leg

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3F
Retrieval Time: 1423		Start coordinates	X: 47 31.676
Collection method/Effort #: Crab trap 95			Y: 122 18.673
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1125			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3P
Retrieval Time: 1424		Start coordinates	X: 47 31.676
Collection method/Effort #: Shrimp trap 95			Y: 122 18.673
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1125			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3F
Retrieval Time: 1432		Start coordinates	X: 47 31.586
Collection method/Effort #: Crab trap 96			Y: 122 18.563
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1128			
1 Dung.			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-C96-DC-13	DC-13	189	460	(D) claws smaller than (R), M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-09-04		Sampling area:	3F
Retrieval Time: 1429		Start coordinates	X: 47 31.586
Collection method/Effort #: Shrimp Trap 96			Y: 122 18.563
Weather: Overcast, Drizzle, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1128			
1 Slender			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-S96	SC-22	193	118.1	(M) smaller (R) claw

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3A
Retrieval Time: 1510		Start coordinates	X: 47 31.960
Collection method/Effort #: Crab trap 97			Y: 122 19.217
Weather: Sunny / Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1235			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3A
Retrieval Time: 1510		Start coordinates	X: 47 31.960
Collection method/Effort #: Shrimp Trap 97			Y: 122 19.217
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1235 4 SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-A-ST97-	SC23	167	205.6	♂
	SC24	97	124.2	missing both claws 1st R walking leg, M
	SC25	101	180.5	M
	SC26	95	160.3	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3A
Retrieval Time: 1516		Start coordinates	X: 47 31.906
Collection method/Effort #: Crab trap 98			Y: 122 19.123
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1239			
15C			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TS-A-CT98	SC 27	91	138.1	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3A
Retrieval Time: 1519		Start coordinates	X: 47 31.906
Collection method/Effort #: Shrimp Trap 98			Y: 122 19.123
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1239			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3B
Retrieval Time: 1521		Start coordinates	X: 47 31.9134
Collection method/Effort #: Crab trap 99			Y: 122 19.111
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1244			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3B
Retrieval Time: 1521		Start coordinates	X: 47 31,934
Collection method/Effort #: Shrimp Trap 99			Y: 122 19,111
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 1244			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3B
Retrieval Time: 1524		Start coordinates	X: 47 31.941
Collection method/Effort #: Crab Trap 100			Y: 122 19.125
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1248			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3B
Retrieval Time: 1524		Start coordinates	X: 47 31.941
Collection method/Effort #: Shrimp Trap 100			Y: 122 19.125
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 1248			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1531		Start coordinates	X: 47 31.842
Collection method/Effort #: Crab Trap 101			Y: 122 18.955
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1254			
No target Species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1531		Start coordinates	X: 47 31.842
Collection method/Effort #: Shrimp Trap 101			Y: 122 18.955
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1254			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1536		Start coordinates	X: 47 31.735
Collection method/Effort #: Crab trap 102			Y: 122 18.777
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1300			
No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1536		Start coordinates	X: 47 31.735
Collection method/Effort #: Shrimp Trap 102			Y: 122 18.777
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1300			
2 SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-RI-D-ST102-SC-28		104	147.5	missing both claws & 2 walking legs, L-side, M
	SC-29	102	133.8	missing L-claw, 2 R walking legs & 1 L walking leg, M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1540		Start coordinates	X: 47 31.747
Collection method/Effort #: Crab Trap 103			Y: 122 18.794
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAE			Y: –
Comments: Deployment Time 1304			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3D
Retrieval Time: 1540		Start coordinates	X: 47 31.747
Collection method/Effort #: Shrimp trap 103			Y: 122 18.794
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1304 2SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-ST103-SC 30		104	186.3	missing L. claw, M
	SC 31	93	117.7	" , M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3E
Retrieval Time: 1546		Start coordinates	X: 47 31.657
Collection method/Effort #: crab trap 104			Y: 122 18.695
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1308 1DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-CT104-DC 14		121	213.9	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3E
Retrieval Time: 1546		Start coordinates	X: 47 31.657
Collection method/Effort #: Shrimp Trap 104			Y: 122 18.695
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1308			
No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3E
Retrieval Time: 1550		Start coordinates	X: 47 31.612
Collection method/Effort #: Crab Trap 105			Y: 122 18.626
Weather: Sunny, Hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time ~~[illegible]~~ 1313			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3E
Retrieval Time: 1554		Start coordinates	X: 47 31.612
Collection method/Effort #: Shrimp Trap 105			Y: 122 18.626
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y:
Comments: Deployment time 1313			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1558		Start coordinates	X: 47 31.642
Collection method/Effort #: Crab Trap 106			Y: 122 18.623
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1316			
No target species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1558		Start coordinates	X: 47 31.642
Collection method/Effort #: Shrimp Trap 106			Y: 122 18.623
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1316			
No Target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1602		Start coordinates	X: 47 31.612
Collection method/Effort #: Crab Trap 107			Y: 122 18.572
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1320 1DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-CT107-DC15		153	406.5	Missing both claws, m

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1604		Start coordinates	X: 47 31.612
Collection method/Effort #: Shrimp trap 107			Y: 122 18.572
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1320 1 SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-ST	107-SC32	97	133.2	Missing R claw, M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1610		Start coordinates	X: 47 31.685
Collection method/Effort #: Crab Trap 108			Y: 122 18.683
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1325 1DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-CT108-DC 16		174	>400	M

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-10-04		Sampling area:	3F
Retrieval Time: 1610		Start coordinates	X: 47 31.685
Collection method/Effort #: Shrimp trap 108			Y: 122 18.683
Weather: Sunny, Hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1325 1SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-ST108-SC33		93	111.5	Missing R claw & 2 R walking legs, M

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	Sampling area: 77 – B
Retrieval time: 11:26	Start coordinates: tow 11:21 X: 47 33.933 Y: 122 20.831 — 43' deep
Collection method/Effort #: TR0001	
Weather: overcast, cool	End coordinates: 11:26 X: 47 33.742 Y: 122 20.758 — 30' deep
Sampler: RAC, MGL	
Comments: 1-1B[illegible]	start set: 11:20 X: 47 33.978 Y: 122 20836 — 250' wire out

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T1-B-TR001-SS-1	106	16		
✓ LDW-T1-B-TR001-SS-2	110	17		
✓ LDW-T1-B-TR001-SS-3	98	~~10.3~~ 13		
✓ LDW-T1-B-TR001-ES-12	265	180		
✓ LDW-T1-B-TR001-PS-1	189	85		
✓ LDW-T1-B-TR001-PS-2	175	74		
✓ LDW-T1-B-TR001-PS-3	158	35		
✓ LDW-T1-B-TR001-PS-4	153	44		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	Sampling area: T1-A
Retrieval time: 12:08	Start coordinates: 12:02 X: 4733.959 Y: 122.20.937 20' deep
Collection method/Effort #: TR002	
Weather: overcast, cool	End coordinates: 12:08 X: 4733.863 Y: 122 20.881 (hang-up)
Sampler: RAC, MGL	
Comments: 2-1A	start set: 12:01 X: 4733.983 X: 122 20.944 23' deep wire out: 175'

hang-up (12:08) ended trawl.

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T1-A-TR002-ES-1	246 mm	154		
✓ LDW-T1-A-TR002-ES-2	244 mm	138		rupture-guts coming out
✓ LDW-T1-A-TR002-ES-3	296 mm	248		
✓ LDW-T1-A-TR002-ES-4	249 mm	132		
✓ LDW-T1-A-TR002-ES-5	242 mm	132		lump on anal fin
✓ LDW-T1-A-TR002-ES-6	~~244~~ 273 mm	~~181~~ 178		
✓ LDW-T1-A-TR002-ES-7	270 mm	179		some parasites, bump on basal gill
✓ LDW-T1-A-TR002-ES-8	226	112		
✓ LDW-T1-A-TR002-ES-9	256	153		some parasites
✓ LDW-T1-A-TR002-ES-10	278	101		
✓ LDW-T1-A-TR002-ES-11	254	120		
✓ LDW-T1-A-TR002-RF-1	311	500.5		
✓ LDW-T1-A-TR002-PS-5	145	42		
✓ LDW-T1-A-TR002-PS-6	161	45.5		
✓ LDW-T1-A-TR002-PS-7	154	46		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: T1-A
Retrieval time: 12:08	Start coordinates: X: Y:
Collection method/Effort #: TR002	
Weather: overcast & cool	End coordinates: X: Y:
Sampler: RAC, MGL	
Comments: CONTINUED... (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T1-A-TR002-PS-8	125	26		
✓ LDW-T1-A-TR002-PS-9	170	58.5		
✓ LDW-T1-A-TR002-SS-4	112	18		
✓ LDW-T1-A-TR002-SS-5	100	13.5		
✓ LDW-T1-A-TR002-SS-6	101	13.5		
✓ LDW-T1-A-TR002-SS-7	109	14.0		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/09	**Sampling area:** T1-E
Retrieval time: 13:13	**Start coordinates:** 13:08 X: 47 33.506 Y: 122 20.714 depth: 15'
Collection method/Effort #: TR003	
Weather: partly cloudy, sun	**End coordinates:** 13:13 X: 47 33.323 Y: 122 20.608 depth: 28'
Sampler: RAC, MGL	
Comments: 3-1E	set start: 13:07 x: 47 33.532 y: 122 20.740 depth: 15'
tire & rock pulled up in trawl	wire out: 100' → 150'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T1-E-TR003-ES-13	331	334		
✓ LDW-T1-E-TR003-ES-14	298	242		
✓ LDW-T1-E-TR003-ES-15	295	285		fin erosion (caudal fin)
✓ LDW-T1-E-TR003-ES-16	305	274		
✓ LDW-T1-E-TR003-ES-17	266	185		
✓ LDW-T1-E-TR003-ES-18	236	116		
✓ LDW-T1-E-TR003-ES-19	240	128		
✓ LDW-T1-E-TR003-ES-20	236	110		fin erosion on ~~anal~~ ventral fin
✓ LDW-T1-E-TR003-ES-21	247	111		
✓ LDW-T1-E-TR003-ES-22	225	100		
✓ LDW-T1-E-TR003-ES-23	221	106		
✓ LDW-T1-E-TR003-ES-24	231	96		
✓ LDW-T1-E-TR003-ES-25	256	155		
✓ LDW-T1-E-TR003-ES-26	258	179		
✓ LDW-T1-E-TR003-ES-27	260	148		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: T1-E
Retrieval time: 13:13	Start coordinates: X: Y:
Collection method/Effort #: TR003	
Weather:	End coordinates: X: Y:
Sampler: BAC, MGL	
Comments: CONTINUED... (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-E-TR003-ES-28	219	100		
LDW-T1-E-TR003-ES-29	286	208		
LDW-T1-E-TR003-ES-30	241	124		
LDW-T1-E-TR003-ES-31	225	98		
LDW-T1-E-TR003-SF-1	317	379		
LDW-T1-E-TR003-PS-10	156	46.5		
LDW-T1-E-TR003-PS-11	193	96		
LDW-T1-E-TR003-PS-12	175	74		
LDW-T1-E-TR003-PS-13	182	73		
LDW-T1-E-TR003-PS-14	213	122		
LDW-T1-E-TR003-PS-15	146	41		
LDW-T1-E-TR003-PS-16	143	34.5		
LDW-T1-E-TR003-PS-17	131	28		
LDW-T1-E-TR003-PS-18	157	48		
LDW-T1-E-TR003-PS-19	110	16		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: T1-E
Retrieval time: 13:13	Start coordinates: X: Y:
Collection method/Effort #: TR003	
Weather:	End coordinates: X: Y:
Sampler: RAC, MGL	

Comments: CONTINUED (page 3)

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-E-TR003-PS-20	133	24.5		
LDW-T1-E-TR003-PS-21	112	15		
LDW-T1-E-TR003-PS-22	102	11.5		
LDW-T1-E-TR003-PS-23	106	13.5		
LDW-T1-E-TR003-PS-24	104	15		
LDW-T1-E-TR003-PS-25	109	13.1		
LDW-T1-E-TR003-PS-26	105	12.5		
LDW-T1-E-TR003-SS-8	125	25.5		
LDW-T1-E-TR003-SS-9	104	15.5		
LDW-T1-E-TR003-SS-10	108	18.5		
LDW-T1-E-TR003-SS-11	98	12.8		
LDW-T1-E-TR003-SS-12	92	10		
LDW-T1-E-TR003-SS-13	100	13		
LDW-T1-E-TR003-SS-14	92	10.8		
LDW-T1-E-TR003-SS-15	100	11.0		~~dead when removed from net~~
LDW-T1-E-TR003-SS-16	94	~~10.9~~ 11.0		dead when removed from net
LDW-T1-E-TR003-SS-17	114	20		"

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T1-D
Retrieval time: 7:57	Start coordinates: X: 47 33.744 depth: 30'-25'
Collection method/Effort #: TR004	Y: 122 20.742
Weather: overcast & misty	End coordinates: X: 47 33.752 depth: 36'
Sampler: RAC, MGL	Y: 122. 20.661
Comments: 4-10	set start: X: 47 33.787 depth: 31'
effort # area & subarea	Y: 122 20.753
	wire out: 175'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
4 LDW-T1-D-TR004-PS-~~01~~ 27	104	3		
[redacted]				

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Subarea 1
ES 32
SS 18
PS 27
PP

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T1-C
Retrieval time: 8:20	**Start coordinates:** 8:14 X: 4733.743 Y: 122 20.842 depth: 44'
Collection method/Effort #: TR005	
Weather: cloudy & cool, misty	**End coordinates:** 0820 X: 4733.537 Y: 122 20.739 depth: 28'
Sampler: RAC, MGL	
Comments: 5-1C	start set: 0813 X: 4733.789 Y: 122.20.849 depth: 42'
	wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-C-TR005-ES-~~01~~ 32	239	135.0		
LDW-T1-C-TR005-ES-~~02~~ 33	284	209		
LDW-T1-C-TR005-ES-~~03~~ 34	246	140.5		
LDW-T1-C-TR005-ES-~~04~~ 35	230	128.0		
LDW-T1-C-TR005-ES-~~05~~ 36	300	~~[illegible]~~ 252		
LDW-T1-C-TR005-ES-~~06~~ 37	260	148		
LDW-T1-C-TR005-ES-~~07~~ 38	220	100		
LDW-T1-C-TR005-ES-~~08~~ 39	200	70		
LDW-T1-C-TR005-ES-~~09~~ 40	240	140		
LDW-T1-C-TR005-ES-~~10~~ 41	220	110		
LDW-T1-C-TR005-ES-~~11~~ 42	~~270~~ 268	191		
LDW-T1-C-TR005-PS-~~01~~ 28	178	65		
LDW-T1-C-TR005-PS-~~02~~ 29	115	13		
LDW-T1-C-TR005-PS-~~03~~ 30	112	7		
LDW-T1-C-TR005-PS-~~04~~ 31	113	11		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T1-C
Retrieval time: 8:20	Start coordinates: 8:14 X: 47 33.743 Y: 122 20.842 depth: 44'
Collection method/Effort #: TR005	
Weather: cloudy + cool, misty	End coordinates: 8:20 X: 47 33.537 Y: 122°20.739 depth 28'
Sampler: RAC, MGL	
Comments: S-1C	Start set: 08:13 X 47 33.789 122 20.849 depth: 42'
Continued (pg 2)	Wire out: 200'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-C-TR005-PS-~~05~~ 32	172	60		
LDW-T1-C-TR005-PS-~~06~~ 33	102	10		
LDW-T1-C-TR005-SS-~~01~~ 35	98	9		
LDW-T1-C-TR005-SS-~~02~~ 36	122	19		
LDW-T1-C-TR005-SS-~~03~~ 37	108	13		
LDW-T1-C-TR005-SS-~~04~~ 38	114	18		
LDW-T1-C-TR005-SS-~~05~~ 39	95	9		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T1-F
Retrieval time: 9:08	**Start coordinates:** 9:02 X: 47 33.541 Y: 122 20.640 d = 20'
Collection method/Effort #: TR007	
Weather: overcast, mist	**End coordinates:** 9:08 X: 47 33.337 Y: 122 20.538 d = 33'
Sampler: RAC, MGL	
Comments: 6-1F → lost sample	Start set: 9:01 X: 47 33.569 Y: 122 20.657 d = 23'
7-1F	
	Wire out: 150'-200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T1-F-TR007-PP-01	266	251		
✓ LDW-T1-F-TR007-PP-02	160	50		
✓ LDW-T1-F-TR007-PP-03	287	220		♀ fish releasing offspring ~~[illegible]~~ fish
✓ LDW-T1-F-TR007-PP-04	197	113		
✓ LDW-T1-F-TR007-SS-~~01~~ 40	105	15		
✓ LDW-T1-F-TR007-SS-~~02~~ 41	101	10		
✓ LDW-T1-F-TR007-SS-~~03~~ 42	98	2		
✓ LDW-T1-F-TR007-SS-~~04~~ 43	105	13		
✓ LDW-T1-F-TR007-SS-~~05~~ 44	110	9		
✓ LDW-T1-F-TR007-SS-~~06~~ 45	98	3		
✓ LDW-T1-F-TR007-PS-~~01~~ 34	232	180		
✓ LDW-T1-F-TR007-ES-~~01~~ 43	246	133		
✓ LDW-T1-F-TR007-ES-~~02~~ 44	268	199		
✓ LDW-T1-F-TR007-ES-~~03~~ 45	220	86		
✓ LDW-T1-F-TR007-ES-~~04~~ 46	225	114		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T1-F
Retrieval time: 9:08	Start coordinates: 9:02 X: 47 33.541 Y: 122 20.640 d = 20'
Collection method/Effort #: TR007	
Weather: overcast, mist	End coordinates: 9:08 X: 47 33.337 Y: 122 20.538 d = 33'
Sampler: RAC, MGL	
Comments: 6-1F → lost sample	start set: 9:01 X: 47 33.569 Y: 122 20.657 d = 23'
7-1F	
(continued Pg 2)	wire out: 150'-200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-F-TR007-ES-~~05~~ 47	266	200		
LDW-T1-F-TR007-ES-~~06~~ 48	233	113		
LDW-T1-F-TR007-ES-~~07~~ 49	325	350		
LDW-T1-F-TR007-ES-~~08~~ 50	228	114		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T2-B
Retrieval time: 9:45	**Start coordinates:** 0939 X: 47 33.822 Y: 122 20.270 d = 37'
Collection method/Effort #: TR008	
Weather: Cloudy, bright	**End coordinates:** 0945 X: 47 33.629 Y: 122 20.183 d = 32'
Sampler: RAC, MGL	
Comments: 8-2B	start set: X: 47 33.861 Y: 122 20.288 0938 d = 37'
rotted log w/ worm holes & crate also in trawl	wire out: 200'

	Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓	LDW-T2-B-TR008-PP-01	150	46.9		
✓	LDW-T2-B-TR008-PP-02	134	32.8		
✓	LDW-T2-B-TR008-PP-03	157	144.9		
✓	LDW-T2-B-TR008-PP-04	134	43.2		
✓	LDW-T2-B-TR008-PP-05	135	28.1		
✓	LDW-T2-B-TR008-PP-06	186	85.9		
✓	LDW-T2-B-TR008-PP-07	170	57.1		
✓	LDW-T2-B-TR008-PP-08	154	49.9		
✓	LDW-T2-B-TR008-PP-09	138	31.2		
✓	LDW-T2-B-TR008-PP-10	155	57.		
✓	LDW-T2-B-TR008-SS-~~X~~16	100	12.5		
✓	LDW-T2-B-TR008-SS-~~X~~17	111	18		
✓	LDW-T2-B-TR008-SS-~~X~~18	111	17		
✓	LDW-T2-B-TR008-SS-~~X~~19	109	13		
✓	LDW-T2-B-TR008-SS-~~X~~20	111	16		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2-B
Retrieval time: 9:45	Start coordinates: X: Y:
Collection method/Effort #: TR008	
Weather:	End coordinates: X: Y:
Sampler:	

Comments: CONT. (page 2)

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-B-TR008-SS-~~16~~ 21	116	20		
LDW-T2-B-TR008-SS-~~17~~ 22	109	15		
LDW-T2-B-TR008-SS-~~18~~ 23	96	11.5		
LDW-T2-B-TR008-SS-~~19~~ 24	103	14		
LDW-T2-B-TR008-SS-~~20~~ 25	123	23		
LDW-T2-B-TR008-SS-~~21~~ 26	119	23		
LDW-T2-B-TR008-SS-~~22~~ 27	117	23		ruptured abdomen
LDW-T2-B-TR008-SS-~~23~~ 28	116	21		
LDW-T2-B-TR008-SS-~~24~~ 29	120	21		ruptured abdomen
LDW-T2-B-TR008-SS-~~25~~ 30	101	12		
LDW-T2-B-TR008-SS-~~26~~ 31	102	13		
LDW-T2-B-TR008-SS-~~27~~ 32	100	14		
LDW-T2-B-TR008-SS-~~28~~ 33	114	14		
LDW-T2-B-TR008-SS-~~29~~ 34	97	11		
LDW-T2-B-TR008-SS-~~30~~ 35	97	10.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2-B
Retrieval time: 9:45	Start coordinates: X: Y:
Collection method/Effort #: TR008	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (pg 3)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-B-TR008-SS-~~16~~ 36	96	13		
LDW-T2-B-TR008-SS-~~17~~ 37	95	9.5		
LDW-T2-B-TR008-ES-01	228	110.5		
ES-02	234	140.5		
ES-03	245	143		
ES-04	240	136		
ES-05	207	131		
ES-06	225	105		
ES-07	206	89		
ES-08	277	160		
ES-09	252	148		
ES-10	286	220		
ES-11	238	130		
ES-12	259	169		
ES-13	285	227		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2 - B
Retrieval time: 9:45	Start coordinates: X: Y:
Collection method/Effort #: TR008	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (Pg 4)	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T2-B-TR008-ES-14	232	120		
ES-15	246	131		
ES-16	236	125		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T2-A
Retrieval time: 10:25	Start coordinates: 1019 X: 47 33.811 Y: 122 20.334 d = 37'
Collection method/Effort #: TR009	
Weather: Cloudy	End coordinates: 1025 X: 47 33.620 Y: 122 20.224 d = 23'
Sampler: RAC, MGL	
Comments: 9-2A	Start set: 1017 X: 47 33.858 Y: 122 20.359 d = 39'
Fish count: SS = 9 ES > 20	
PS = 6	Wire out: 230'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-A-TR009-SS-38	104	14		
LDW-T2-A-TR009-SS-39	114	18		
LDW-T2-A-TR009-SS-40	114	22.5		rupture in progress
LDW-T2-A-TR009-SS-41	131	32		
LDW-T2-A-TR009-SS-42	117	22		
LDW-T2-A-TR009-SS-43	129	30.5		
LDW-T2-A-TR009-SS-44	103	14.5		Gut rupture
LDW-T2-A-TR009-SS-45	97	12		Gut rupture
LDW-T2-A-TR009-SS-46	110	13.5		Gut rupture
LDW-T2-A-TR009-ES-17	273	184		
LDW-T2-A-TR009-ES-18	279	188		
LDW-T2-A-TR009-ES-19	316	300		
LDW-T2-A-TR009-ES-20	235	131		
LDW-T2-A-TR009-ES-21	224	96		
LDW-T2-A-TR009-ES-22	256	162		

SS ↑ ↓ ES

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2 - A
Retrieval time: 10:25	Start coordinates: X: 47·33·811 d = 37' Y: 122·20·334
Collection method/Effort #: TR009	
Weather: Cloudy	End coordinates: X: 47·33·620 d = 23' Y: 122·20·224
Sampler: BAC, MGL	
Comments: 9-2A	start set: x: 47·33·858 d = 39' y: 122·20·359
SS = 9 ES > 20	10:17
PS = 6	wire out: 230'

TR009 → continued (Pg 2)

	Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
	LDW-T2-A-TR009-ES-23	298	262		
	LDW-T2-A-TR009-ES-24	323	355		
	LDW-T2-A-TR009-ES-25	250	130		
	LDW-T2-A-TR009-ES-26	255	156		
	LDW-T2-A-TR009-ES-27	280	206		
	LDW-T2-A-TR009-ES-28	251	150		
	LDW-T2-A-TR009-ES-29	259	164		
	LDW-T2-A-TR009-ES-30	294	247		(ventral) gut rupture
	LDW-T2-A-TR009-ES-31	287	241		
	LDW-T2-A-TR009-ES-32	277	202		
ES ↑	LDW-T2-A-TR009-ES-33	274	190		
PP	LDW-T2-A-TR009-PP-15	259	250		parasite near mouth (external) rupture ventral center
↓ PS	LDW-T2-A-TR009-PS-9	177	69		
	LDW-T2-A-TR009-PS-10	142	33		
	LDW-T2-A-TR009-PS-11	140	42		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2 - A
Retrieval time: 10:25	Start coordinates: X: 47 · 33 · 811 d = 37'
Collection method/Effort #: TR009	Y: 122 · 20 · 334
Weather: Cloudy	End coordinates: X: 47 · 33 · 620 d = 23'
Sampler: BAC, MGL	Y: 122 · 20 · 224
Comments: 9 - 2A	start set 10:17 x: 47 · 33 · 858 d = 39'
SS = 9 ES > 20	y: 122 · 20 · 359
PS = 6	wire out = 230'

TR0009 → continued (Pg 3)

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW - T2-A-TR009- PS - 12	167	60.5		
LDW - T2- A - TR009- PS - 13	106	13		
LDW - T2- A - TR009- PS - 14	100	11		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T2-F
Retrieval time: 10:58	Start coordinates: 10:51 X: 47 32. 478 Y: 122 19. 943 d= 25'
Collection method/Effort #: TR010	
Weather: cloudy	End coordinates: 10:58 X: 47 32. 307 Y: 122 19.702 d= 20'
Sampler: RAC, MGL	
Comments: 10-2F	Start set: 10:50 X: 47 32.503 Y: 122 19. 979 d= 23'
Fish count: PS=4 PP=4 SS=6	Wire out: 150'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-F-TR010-SS-01	99	10		
LDW-T2-F-TR010-SS-02	92	11		
LDW-T2-F-TR010-SS-03	110	17.8		
LDW-T2-F-TR010-SS-04	98	11.5		
LDW-T2-F-TR010-SS-05	100	13.1		
LDW-T2-F-TR010-SS-06	96	12.9		
LDW-T2-F-TR010-PP-~~01~~ 11	~~124~~ 128	24.3		
LDW-T2-F-TR010-PP-~~02~~ 12	146	44.5		
LDW-T2-F-TR010-PP-~~03~~ 13	150	44		
LDW-T2-F-TR010-PP-~~04~~ 14	152	43.9		
LDW-T2-F-TR010-PS-01	152	45.5		
LDW-T2-F-TR010-PS-02	153	43.5		
LDW-T2-F-TR010-PS-03	155	51.5		
LDW-T2-F-TR010-PS-04	144	39.8		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T2-E
Retrieval time: 11:41	**Start coordinates:** 11:35 X: 47 32.437 Y: 122 19.456 d= 20'
Collection method/Effort #: TR012	
Weather: cloudy, bright	**End coordinates:** 11:41 X: 47 32.273 Y: 122 19.720 d= 22'
Sampler: RAC, MGL	
Comments: 11-2E → lost sample	start set: 11:34 X: 47 32.459 Y: 122 19.987 d= 20'
FISH COUNT: SS = 9 12-E	wire out: ~~130'~~ 150'
PS = 4 (?)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-E-TR012-PS-~~01~~ 05	180	76.5		
LDW-T2-E-TR012-PS-~~02~~ 06	177	63		
LDW-T2-E-TR012-PS-~~03~~ 07	97	5		
LDW-T2-E-TR012-PS-~~04~~ 08	112	8		
LDW-T2-E-TR012-SS-~~01~~ 07	87	10.2		
LDW-T2-E-TR012-SS-~~02~~ 08	101	~~114.7~~ 14.7		
LDW-T2-E-TR012-SS-~~03~~ 09	96	12.9		
LDW-T2-E-TR012-SS-~~04~~ 10	90	9.5		rupture
LDW-T2-E-TR012-SS-~~05~~ 11	95	12.5		
LDW-T2-E-TR012-SS-~~06~~ 12	86	7.4		
LDW-T2-E-TR012-SS-~~07~~ 13	90	11.7		
LDW-T2-E-TR012-SS-~~08~~ 14	109	18.5		
LDW-T2-E-TR012-SS-~~09~~ 15	122	22.1		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-A
Retrieval time: 13:08	Start coordinates: 13:02 X: 47 31.974 Y: 122 19.252 d = 13'
Collection method/Effort #: TR013	
Weather: cloudy & bright, sun	End coordinates: 13:08 X: 47 31.830 Y: 122 19.003 d = 14'
Sampler: RAC, MGL	
Comments: 13-3A	Start set: 13:02 x: 47 31.985 y: 122 19.271 d = 15'
Fish: SF, ES, SS, PS	Wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-A-TR013-SF-01	314	365.0		
LDW-T3-A-TR013-PP-04	197	117.0		
PP-05	152	47.5		
PP-06	149	49.5		
PP-07	168	65		Ruptured gut
PP-08	142	43.5		Ruptured gut
SS-73	128	28.5		
SS-74	108	17.5		Injured + skin ruptured during collection
SS-75	107	17.0		
SS-76	103	14.5		Ruptured gut
SS-77	92	11.0		Ruptured gut, punctured skin
SS-78	98	13.5		
PS-34	172	74.5		
PS-35	175	69		
PS-36	151	38		

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-A
Retrieval time: 13:08	Start coordinates: X: 47 31.974 Y: 122 19.252
Collection method/Effort #: TR013	
Weather: Cloudy, bright, sun	End coordinates: X: 47 31.830 Y: 122 19.003
Sampler: RAC, MGL	
Comments: 13-3A	

CONTD (pg 2)

Specimen ID #		Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-A-TR013-	PS-37	201	100		
	PS-38	130	25		
	PS-39	106	12.5		
	PS-40	103	13.5		
	ES-04	253	155		
	ES-05	301	225		Ventral rupture
	ES-06	229	120		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-B
Retrieval time: 13:27	Start coordinates: 13:22 X: 47 31.988 Y: 122 19.221 d=12'
Collection method/Effort #: TR014	
Weather: cloudy, sunbreaks	End coordinates: 13:27 X: 47 31.852 Y: 122 19.991 d=12'
Sampler: RAC, MGL	
Comments: 14-3B	Start set 13:21 X: 47 32.016 Y: 122 19.255 d=11'
Fish: SS=14	
	wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-B-TR014-SS-79	97.0	12.0		Ruptured gut
SS-80	123.0	23.5		"
SS-81	94.0	11.5		
SS-82	117	19.0		Ruptured gut
SS-83	108	18.0		
SS-84	114	19.0		Small Ruptured gut
SS-85	108	16.5		Ruptured gut
SS-86	102	14.5		
SS-87	99	13.0		
SS-88	102	13.5		
SS-89	96	13.0		Ruptured gut
SS-90	101	12.0		
SS-91	97	12.5		
PP-09	158	51		Transparent forehead
PP	78	6		Discarded, too small

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3 - B
Retrieval time: 13:27	Start coordinates: X: Y:
Collection method/Effort #: TR014	
Weather: Cloudy, sunbreaks	End coordinates: X: Y:
Sampler: RAC, MGL	

Comments:

CONTD pg 2

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-B-TR014-PS-28	128	26		
PS-29	123	22		
PS-30	104	12		
PS-31	105	13.5		
PS-32	140	40.5		
PS-33	95	9.0		
LDW-T3-B-TR014-SF-02	300			

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-E
Retrieval time: 13:48	Start coordinates: X: 47 31.693 d=12'
Collection method/Effort #: TR015	Y: 122 18.759
Weather: Cloudy, sun	End coordinates: X: 47 31.507 d= 12'
Sampler: RAC, MGL	Y: 122 18.554
Comments: 15-3E	set start: x: 47 31.707 d= 11'
Fish: SS > 50 PS ≈ 20	y: 122 18.785
PP=1 ES-	Wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR015-PS-04	150	41		
PS-05	154	47.5		
PS-06	172	65.5		
PS-07	144	45		
PS-08	238	190		
PS-09	157	52		
PS-10	189	88.5		
PS-11	169	66		
PS-12	172	71		
PS-13	161	53		
PS-14	162	63		
PS-15	148	39		
PS-16	168	63.5		
PS-17	159	50		
PS-18	170	59		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-E
Retrieval time: 13:48	Start coordinates: X: 47 31.693 d = 12' Y: 122 18.759
Collection method/Effort #: TR015	
Weather: cloudy, sun	End coordinates: X: 47 31.507 d = 12' Y: 122 18.554
Sampler: RAC, MGL	
Comments: CONT'D pg 2	x: 47 31.707 d = 11' y: 122 18.785

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR015-ES-01	301	289		
↓ -ES-02	226	98		
LDW-T3-E-TR015-SS-35	109	17.5		ABDOMEN RUPTURE
SS-36	104	16		" "
SS-37	111	21		
SS-38	120	21.5		
SS-39	100	13.5		GUT RUPTURE
SS-40	103	15.5		" "
SS-41	111	17		" "
SS-42	100	12		" "
SS-43	99	13		
SS-44	113	19		
SS-45	107	16		
SS-46	93	10		Small gut rupture
SS-47	111	15		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-E
Retrieval time: 13:48	Start coordinates: X: 47 31.693
Collection method/Effort #: TR015	Y: 122 18.759
Weather: Cloudy, sun	End coordinates: X: 47 31.507
Sampler: RAC, MGL	Y: 122 18.554
Comments:	

CONT'D pg 3

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR015-SS-48	129	27.5		
SS-49	134	29.5		Gut rupture
SS-50	126	23.5		
SS-51	94	11.5		
SS-52	95	12		Gut rupture
SS-53	131	30		
SS-54	136	34		Gut rupture
SS-55	112	16		
SS-56	118	23.5		Gut rupture
SS-57	114	18.5		
SS-58	115	18		
SS-59	115	20		
SS-60	100	12		
SS-61	105	14.5		Gut rupture
SS-62	108	16.5		

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T3-E
Retrieval time: 13:48	**Start coordinates:** X: 47 31.693
Collection method/Effort #: TR015	Y: 122 18.759
Weather: Cloudy, sun	**End coordinates:** X: 47 31.507
Sampler: RAC, MGL	Y: 122 18.554

Comments:

CONT'D (Pg 4)

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR015-SS-63	130	28.5		
-SS-64	108	16.5		
-SS-65	111	18.5		
-SS-66	105	15		
	Size Class	Fish Count		Total
80-120	80-100	~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ I ~~IIII~~ ~~IIII~~ ~~IIII~~		51
	100-120	~~IIII~~ ~~IIII~~ ~~IIII~~		
>120	120-140	~~IIII~~ ~~IIII~~		10
	>140			
	<80	II		2
LDW-T3-E-TR015-PP-10	150	42		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-C
Retrieval time: 14:18	Start coordinates: 14:15 X: 47 31.782 Y: 122 18.920 d= 17'
Collection method/Effort #: TR016	
Weather: partly cloudy, sun	End coordinates: 14:18 X: 47 31.846 Y: 122 19.034 d= 12'
Sampler: RAC, MGL	
Comments: ~~T~~ 16-3C	start set: 14:14 X: 47 31.768 Y: 122 18.896 d= 16'
Fish SS-6 (?)	
	Wire out: 100'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-C-TR016-ES-03	280	213.0		
LDW-T3-C-TR016-SS-67	120	22.5		
SS-68	99	12.0		Rupture
SS-69	95	11.5		Rupture
SS-70	105	15.0		Mild Rupture
SS-71	102	16.0		Mild Rupture
SS-72	96	12.0		
LDW-T3-C-TR016- PS-41	168	58.5		
PS-42	100	14.5		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T3-D
Retrieval time: ~~14:18~~ 14:35	Start coordinates: 14:30 X: 47 31.732 Y: 122 18.773 d = 15'
Collection method/Effort #: TR017	
Weather: partly cloudy, sun	End coordinates: 14:35 X: 47 31.863 Y: 122 19.004 d = 11'
Sampler: RAC, MGL	
Comments: T-3D	start set: 14:29 X: 47 31.723 Y: 122 18.756 d = 13'
Fish count: SS ~40 ES-2 PS-9 PP-3	
trawled slightly into channel b/c of obstacles	Wire out: 100'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-D-TR017-PP-01	152	50		
LDW-T3-D-TR017-PP-02	150	53.5		got rupture starting
PP ↑ LDW-T3-D-TR017-PP-03	197	106		got rupture
↓ PS LDW-T3-D-TR017-PS-19	170	60		
LDW-T3-D-TR017-PS-20	163	58.5		
LDW-T3-D-TR017-PS-21	176	79		
LDW-T3-D-TR017-PS-22	106	15		
LDW-T3-D-TR017-PS-23	133	27.5		
LDW-T3-D-TR017-PS-24	169	64.5		
LDW-T3-D-TR017-PS-25	107	13.5		
LDW-T3-D-TR017-PS-26	101	11.5		
PS ↑ LDW-T3-D-TR017-PS-27	100	12		
↓				

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-D
Retrieval time: 14:18	Start coordinates: X: 47 · 31 · 732 d = 15' Y: 122 · 18 · 773
Collection method/Effort #: TR017	
Weather: partly cloudy, sun	End coordinates: X: 47 · 31 · 863 d = 11' Y: 122 · 19 · 004
Sampler: BAC, MGL	
Comments: 17-3D	start set x = 47

Fish Count: SS-40 ES-2 PS-9 PP-3

trawled slightly into channel because of obstacles.

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-D-TR017-SS-92	131	29		Gut ruptured
SS-93	122	24		
SS-94	124	23.5		
SS-95	103	14.5		
~~SS-96~~	~~106~~	~~14.5~~		
SS-97	144	40.5		Gut ruptured
SS-98	118	20.5		
SS-99	112	20.0		
SS-100	111	20.5		
SS-101	123	24.5		Gut ruptured
SS-102	128	26.5		
SS-103	104	14.0		
SS-104	101	14.5		
SS-105	105	15.5		
SS-106	98	13.0		Minor protruding colaeca

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-D
Retrieval time: 14:18	Start coordinates: X: Y:
Collection method/Effort #: TR017	
Weather:	End coordinates: X: Y:
Sampler: BAC, MGL	
Comments: 17-3D	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-D-TR017-SS-107	118	22		Prolasped colaeca
SS-108	104	16		
SS-109	92	13		
SS-110	100	13.5		Prolasped colaeca
SS-111	116	20		" "
SS-112	96	11.5		" "
SS-113	99	13		
SS-114	107	16		
SS-115	99	12.5		Ruptured gut
SS-116	94	11		" "
SS-117	99	13		" "
SS-118	99	12		
SS-119	100	13		
SS-120	96	12.5		
SS-121	96	11		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-D
Retrieval time: 14:18	Start coordinates: X: Y:
Collection method/Effort #: TR017	
Weather:	End coordinates: X: Y:
Sampler: BAC MGL	
Comments: 17-3D	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-D-TR017-SS-122	102	14.5		
SS-123	106	15		Ruptured gut
SS-124	106	15.5		
SS-125	95	11		
SS-126	104	15		
SS-127	107	16.5		Ruptured gut
ES-07	304	203		
ES-08	189	66		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T2-C
Retrieval time: 7:55	Start coordinates: 7:53 X: 47 32.580 Y: 122 20.178 d = 27'
Collection method/Effort #: TR018	
Weather: cloudy	End coordinates: 7:55 X: 47 32.653 Y: 122 20.253 d = 34'
Sampler: RAC, MGL	
Comments: Fish count: (27)	set start: 7:52 X: 47 32.556 Y: 122 20.147 d = 23'
BS=7 SS=10	
PS=5	wire out: 175'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-C-TR018- PS-15	161	49.9		
LDW-T2-C-TR018- PS-16	176	74.8		
LDW-T2-C-TR018- PS-17	172	60.7		
LDW-T2-C-TR018- PS-18	186	64.7		
LDW-T2-C-TR018 -PS-19	142	37.5		
LDW-T2-C-TR018 - SS-58	115	20.8		
-SS-59	110	18.6		
-SS-60	116	22.6		
-SS-61	115	17.6		
-SS-62	101	12.6		
-SS-63	130	28.6		slight 1 Prolapsed cloaca
-SS-64	116	18.2		
-SS-65	111	16.0		
-SS-66	100	10.8		slightly prolapsed cloaca
-SS-67	96	11.5		
~~-SS-68~~				

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T2-C
Retrieval time: 7:55	Start coordinates: X: Y:
Collection method/Effort #: TR018	
Weather:	End coordinates: X: Y: Cont'd
Sampler:	
Comments: Cont'd	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-C-TR018-ES-34	225	119.6		
-ES-35	230	118.9		
-ES-36	245	155.2		
-ES-37	250	198.7		
-ES-38	245	153.7		
-ES-39	255	170.1		
-ES-40	285	246.7		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T2-D
Retrieval time: 8:19	Start coordinates: X: 47 32.609 d = 28'
Collection method/Effort #: TR019	Y: 122 20.145
Weather: cloudy	End coordinates: X: 47 32.660 d = 34'
Sampler: RAC, MGL	Y: 122 20.206
Comments: 19-2D	set start: X: 47 32.570 d = 30'
Fish count: SS-3 PS-2 (12)	Y: 122 20.105
ES-7 (?)	Wire out: 175'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-D-TR019-PS-20	160	57.2		
↓ -PS-21	145	35.2		
LDW-T2-D-TR019-SS-68	115	20.9		Gut rupture
↓ -SS-69	105	12.1		Gut rupture
↓ -SS-70	75	4.4		
LDW-T2-D-TR019-ES-41	220	120.4		
↓ -ES-42	250	188.2		
-ES-43	220	109.7		
-ES-44	190	73.9		
-ES-45	270	194.8		
-ES-46	250	155.2		
-ES-47	220	85.8		
-ES-48	230	112.8		
↓ -ES-49	255	150.1		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/19/04	Sampling area: T3-F
Retrieval time: 9:02	Start coordinates: 8:54 X: 47 31.713 Y: 122 18.725 d = 19'
Collection method/Effort #: TR020	
Weather: cloudy	End coordinates: 9:02 X: 47 31.516 Y: 122 18.506 d = 13'
Sampler: RAC, MGL	

Comments: Fish counts: ~~SF-5~~ PS-17
PP-4 ~~SP-1~~ (47)
SS-20

set start: X: 47 31.729 Y: 122 18.747 d = 17'
8:53
Wire out: 125'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-F-TR020-SP-01	220	227.0		
LDW-T3-F-TR020-SF-03	338	700		
LDW-T3-F-TR020-SF-04	330	150		
LDW-T3-F-TR020-SF-05	260	217.6		
-SF-06	191	90.2		
-SF-07	280	410.5		
LDW-T3-F-TR020-PP-~~10~~ 15	200	120.1		
-PP-11	107	39		
-PP-12	145	48.2		Gut Rupture
-PP-13	150	58.0		MINOR Gut Rupture
LDW-T3-F-TR020-PS-~~41~~ 67	137	26.0		
-PS-~~42~~ 68	172	59.3		
-PS-43	190	82.2		
-PS-44	180	101.9		
-PS-45	182	76.0		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T3-F
Retrieval time: 0902	Start coordinates: X: Y:
Collection method/Effort #: TR020	
Weather:	End coordinates: X: Y: cont'd
Sampler:	
Comments: cont'd (3)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-F-TR020-PS46	161	56.4		
-PS-47	212	127.3		
-PS-48	192	87.8		
-PS-49	165	64.2		
-PS-50	144	43.5		
-PS-51	97	13.8		
-PS-52	100	14.6		
-PS-53	109	14.0		
-PS-54	107	12.7		
-PS-55	120	19.0		
-PS-56	100	12.1		
-PS-57	110	14.9		
LDW-T3-F-TR020-SS-~~92~~ 128	100	12.2		
-SS-~~93~~ 129	102	14.1		
-SS-~~94~~ 130	115	22.1		
-SS-~~95~~ 131	108	14.2		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T3-F
Retrieval time: 0902	Start coordinates: X: Y:
Collection method/Effort #: TR020	
Weather:	End coordinates: X: Y: Cont'd
Sampler:	
Comments: pg. 2	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-F-TR020-SS-~~96~~ 132	98	10.6		Prolapsed cloaca
-SS-~~97~~ 133	105	15		
-SS-~~98~~ 134	98	13.5		Minor prolapsed cloaca
-SS-~~99~~ 135	118	28.1		
-SS-~~100~~ 136	95	12.7		Gut rupture
-SS-~~101~~ 137	115	15.2		
-SS-~~102~~ 138	100	14.4		
-SS-~~103~~ 139	97	12.4		
-SS-~~104~~ 140	81	5.9		
-SS-~~105~~ 141	98	14.7		
-SS-~~106~~ 142	97	13.7		
-SS-~~107~~ 143	80	7.0		
-SS-~~108~~ 144	97	12.6		
-SS-~~109~~ 145	71	4.0		
-SS-~~110~~ 146	72	4.9		Gut rupture
-SS-~~111~~ 147	70	4.5		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	**Sampling area:** T4-A
Retrieval time: 9:58	**Start coordinates:** 9:51 X: 47 31.083 Y: 122 18.394 d = 15'
Collection method/Effort #: TR021	
Weather: cloudy	**End coordinates:** 9:58 X: 47 30.856 Y: 122 18.302 d = 16'
Sampler: RAC, MGL	
Comments: 21-4A	start set: 9:51 X: 47 31.096 Y: 122 18.398 d = 18'
Fish counts: SS-20 SF-1 (26) PS-5	wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-A-TR021-PS-01	119	18.5		
PS-02	102	13.2		
PS-03	186	81.0		
PS-04	100	12.6		
PS-05	105	14.0		
LDW-T4-A-TR021-SS-01	111	17.7		
SS-02	109	13.9		
SS-03	123	19.2		
SS-04	108	14.7		
SS-05	104	13.4		
SS-06	121	22.2		
SS-07	95	12.9		~~ruptured gut~~ prolapsed cloaca
SS-08	102	14.4		~~ruptured gut~~ prolapsed cloaca
SS-09	102	13.4		
SS-10	87	10.0		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T4-A
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort #: TR021	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-A-TR021-SS-11	96	10.6		
SS-12	96	12.4		
SS-13	125	25.3		
SS-14	126	26.1		
SS-15	94	11.1		~~ruptured gut~~ Prolapsed cloaca
SS-16	91	10.9		
SS-17	100	13.0		
SS-18	100	12.7		
SS-19	109	14.6		
SS-20	103	12.1		
LDW-T4-A-TR021-SF-2	420	330		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	**Sampling area:** T4-B
Retrieval time: 10:33	**Start coordinates:** X: 47 31.029 d = 15' Y: 122 18.321
Collection method/Effort #: TR022	
Weather: cloudy	**End coordinates:** X: 47 30.871 d = 10' Y: 122 18.257
Sampler: RAC, MGL	
Comments:	set start: x: 47 31.045 d = 11'
Fish: SS-20 (20)	y: 122 18.320
	wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR022-SS-21	105	13.5		
SS-22	106	15.0		
SS-23	97	11.9		
SS-24	96	12.8		
SS-25	102	13.0		
SS-26	95	10.1		
SS-27	97	10.7		
SS-28	117	22.8		
SS-29	101	12.4		
SS-30	94	10.5		
SS-31	94	11.3		
SS-32	112	17.8		
SS-33	94	11.7		
SS-34	98	10.6		
SS-35	100	11.1		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T4-B
Retrieval time: 10:33	Start coordinates: X: Y:
Collection method/Effort #: TR022	
Weather:	End coordinates: X: Y:
Sampler: RAG, MGL	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR022-SS-36	127	26.9		
SS-37	104	14.1		
SS-38	124	22.3		
SS-39	115	18.9		
SS-40	105	13.4		

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T4-C
Retrieval time: 11:05	Start coordinates: 11:01 X: 47 30.845 Y: 122 18.305 d=12'
Collection method/Effort #: TR023	
Weather: cloudy & bright	End coordinates: 11:05 X: 47 30.721 Y: 122 18.222 d=9.8'
Sampler: RAC, MGL	
Comments: 23-4C	start set X: 47 30.862 Y: 122 18.310 d=11'
Fish count: SS-20 PS-20 SF-7 (47)	wire out: 75'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-TR023- PS-06	105	16.2		
PS-07	99	10.4		
PS-08	115	16.9		
PS-09	106	14.2		
PS-10	107	13.8		
PS-11	107	14.5		
PS-12	105	11.5		
PS-13	106	12.7		
PS-14	104	12.4		
PS-15	120	17.0		
PS-16	102	12.1		
PS-17	102	11.9		
PS-18	131	26.3		
PS-19	111	14.8		
PS-20	111	13.6		
PS-21	114	11.5		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/09	Sampling area: T4-C
Retrieval time: 11:05	Start coordinates: X: Y:
Collection method/Effort #: TR023	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-TR023-PS-22	127	21.2		
PS-23	113	18.7		
PS-24	115	15.3		
PS-25	101	10.8		
PS-26	114	18.7		
LDW-T4-C-TR023-SS-41	126	24.4		
SS-42	98	13		
SS-43	122	17.1		
SS-44	97	12.6		
SS-45	93	11.1		prolapsed cloaca
SS-46	103	13.6		
SS-47	115	16.0		
SS-48	96	10.5		
SS-49	101	12.1		
SS-50	111	16.8		
SS-51	102	11.6		slightly prolapsed cloaca

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T4-C
Retrieval time: 11:05	Start coordinates: X: Y:
Collection method/Effort #: TR023	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (page 3)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-TR023-SS-52	135	32.4		
SS-53	105	13.7		
SS-54	114	15.5		
SS-55	114	19.2		
SS-56	98	10.4		
SS-57	100	11.3		
SS-58	100	12.3		Slightly prolapsed cloaca
SS-59	102	13.3		
SS-60	90	6.3		
LDW-T4-C-TR023-SF-03	260	234.1		
SF-04	258	231.8		
SF-05	285	239.0		
SF-06	210	22.4		
SF-07	216	128.8		
SF-08	272	226.8		
SF-09	890	398		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/09	**Sampling area:** T4-D
Retrieval time: 13:12	**Start coordinates:** 13:08 X: 47 30.866 Y: 122 18.266 d = 12'
Collection method/Effort #: TR025	
Weather: Cloudy	**End coordinates:** 13:12 X: 47 30.756 Y: 122 18.172 d = 12'
Sampler: RAC, MGL	
Comments: 24-4D → lost sample (too much mud came undone)	Set Start: 13:08 X: 47 30.873 Y: 122 18.267 d=12'
25-4D	
Fish count: SF-1 SS-20 (n) PP-1 PS-5	Wire out: 50'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-D-TR025-SS-61	106	14.7		
-SS-62	101	15.1		
-SS-63	95	12.1		
-SS-64	127	25.6		
-SS-65	104	15.0		
-SS-66	114	17.8		
-SS-67	114	20.1		
-SS-68	98	12.2		
-SS-69	126	19.4		
-SS-70	103	13.2		
-SS-71	96	9.9		
-SS-72	140	36.9		
-SS-73	100	12.7		
-SS-74	116	19.1		
-SS-75	114	20.6		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T4-D
Retrieval time: 13:12	Start coordinates: X: Y:
Collection method/Effort #: TR025	
Weather:	End coordinates: X: Y: Cont'd
Sampler: RAC, MGL	
Comments: Cont'd	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-D-TR025-SS-76	126	25.6		
-SS-77	99	13.1		
-SS-78	105	18.6		
-SS-79	125	23.4		
-SS-80	96	11.9		
LDW-T4-D-TR025-PS-27	156	39.2		
-PS-28	96	9.9		
-PS-29	104	12.2		
-PS-30	112	16.2		
-PS-31	100	9.5		
LDW-T4-D-TR025-PP-1	203	121.6		
LDW-T4-D-TR025-SF-10	301	353.5		
LDW-T4-D-TR025-				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T1-A
Retrieval time: 8:14	**Start coordinates:** 8:10 X: 47 33.923 Y: 122 20.918 d = 42'
Collection method/Effort #: ~~TR026~~, TR027	
Weather: Cloudy, bright	**End coordinates:** 8:14 X: 47 33.861 Y: 122 20.853 d = 43'
Sampler: RAC, MGL	
Comments: 26-1A → net hung up, TR027 (trawl ended b/c of hang-up)	set start: 8:09 X: 47 33.967 Y: 122 20.936 d = 36'
Fish count: ES = 8 SS = 1 PS = 7 (16)	wire out: ~~200'~~ 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-A-TR027-SS-60	95	11.5		
LDW-T1-A-TR027-PS-41	162	64.5		
PS-42	183	87.7		
PS-43	181	88.5		
PS-44	133	38.9		
PS-45	192	106.3		
PS-46	160	68.9		
PS-47	200	95.5		
LDW-T1-A-TR027-ES-58	315	344		
ES-59	200	80.7		
ES-60	235	129.4		
ES-61	270	189.6		
ES-62	230	101.1		
ES-63	304	305.2		
ES-64	260	173.1		
ES-65	226	118		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T1-D
Retrieval time: 8:57	**Start coordinates:** X: 47 33.784 d = 30' Y: 122 20.744
Collection method/Effort #: TR028	
Weather: partly cloudy	**End coordinates:** X: 47 33.547 d = 27' Y: 122 20.650
Sampler: RAC, MGL	
Comments: 28-D	set start: x: 47 33.783 d = 28' Y: 122 20.756
Fish count: NONE	wire out: 175'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-D-TR028-				
No target spp. collected.				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T1-D
Retrieval time: 9:21	Start coordinates: 9:15 X: 47 33.746 Y: 122 20.757 d=38'
Collection method/Effort #: TR029	
Weather: partly cloudy, sun	End coordinates: 9:21 X: 47 33.543 Y: 122 20.652 d=32'
Sampler: RAC, MGL	
Comments: 29-1D	set start: 9:14 X: 47 33.778 Y: 122 20.771 d=38'
Fish Count: SS=5 (1 undersize by .5cm but kept anyway)	wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-D-TR029-SS-S1	92	11.2		
SS-S2	71	4.4		
SS-S3	101	13.2		
SS-S4	75	5.1		
SS-S5	95	10.2		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/09	Sampling area: T1-D
Retrieval time: 10:20	Start coordinates: 10:14 X: 47 33.742 Y: 122 20.765 d= 38'
Collection method/Effort #: ~~TR030~~ TR031	
Weather: partly cloudy, sunny	End coordinates: 10:20 X: 47 33.543 Y: 122 20.661 d= 36'
Sampler: RAC, MGL	

Comments: 30-1D → cotend not tied, lost sample set start: 10:13 X: 47 33.777 Y: 122 20.778 d= 39'
31-1D
Fish count: SS=4 (5) wire out: 200'
PS=1

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-D-TR0~~30~~31-PS-40	142	33.4		
LDW-T1-D-TR0~~30~~31-SS-56	112	17.1		
SS-57	120	24.1		
SS-58	140	27.4		
SS-59	102	12.7		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T2-D
Retrieval time: 10:47	**Start coordinates:** X: 47 32.596 d = 29' Y: 122 20.132
Collection method/Effort #: TR032	
Weather: sunny	**End coordinates:** X: 47 32.669 d = 32' Y: 122 20.207
Sampler: RAC, MGL	
Comments: 32-2D	start set: X: 47 32.569 d = 27' Y: 122 20.108
Fish count: ES = 11 PS = 6 SS = 11 (28)	wire out: 175'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-D-TR032 - SS - 71	127	29.5		
SS- 72	112	17.7		
SS- 73	104	13.2		slightly prolapsed cloaca
SS-74	110	16.1		
SS-75	99	11.4		slightly prolapsed cloaca
SS-76	100	13.2		
SS-77	95	10.9		
SS-78	110	17.8		prolapsed cloaca
SS-79	112	15.8		
SS-80	100	12.2		
SS-81	95	11.3		prolapsed cloaca
LDW-T2-D-TR032-PS-22	165	57.4		
PS-23	173	78.1		
PS-24	132	32.6		
PS-25	139	34.8		
PS-26	135	34.9		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/5/04	Sampling area: T2-D
Retrieval time: 10:47	Start coordinates: X: Y:
Collection method/Effort #: TR032	
Weather:	End coordinates: X: Y:
Sampler: RAC, MGL	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-D-TR032-PS-27	155	63.7		
LDW-T2-D-TR032-ES-50	210	88.4		
ES-51	260	169.5		
ES-52	~~128~~ 240 TD	~~240~~ 128 TD		
ES-53	233	130		
ES-54	262	185.3		
ES-55	220	131.3		
ES-56	251	164.8	F	
ES-57	225	132.5		
ES-58	266	186.9		fin erosion
ES-59	246	136.4		
ES-60	209	94.7		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T2-F
Retrieval time: 11:14	**Start coordinates:** 11:08 X: 47 32.443 Y: 122 19.912 d=29'
Collection method/Effort #: TR033	
Weather: sunny	**End coordinates:** 11:14 X: 47 32.289 Y: 122 19.677 d=24'
Sampler: RAC, MGL	
Comments: 33-2F	start set: 11:07 X: 47 32.479 Y: 122 19.945 d=28'
Fish count: SS=4 PP=1 PS=2 ES=2 (a)	wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-F-TR033-ES-61	235	108.3		
ES-62	237	122.2		
LDW-T2-F-TR033-PS-28	175	67.1		
PS-29	170	70.7		
LDW-T2-F-TR033-PP-16	155	49.5		
LDW-T2-F-TR033-SS-82	100	13.7		
SS-83	110	17.1		
SS-84	100	12.6		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T3-C
Retrieval time: 11:40	**Start coordinates:** 11:37 X: 47 31.834 Y: 122 19.014 d=23'
Collection method/Effort #: TR034	
Weather: sunny	**End coordinates:** 11:40 X: 47 31.819 Y: 122 18.982 d=23'
Sampler: RAC, MGL	
Comments: 3A-3C	Start set: 11:36 X: 47 31.757 Y: 122 18.873 d=20'
Fish count: ES=1 PS=4 SF=1 (6)	Wire out: 125'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-C-TR034-SF-8	370	330.8		
LDW-T3-C-TR034-PS-62	160	55.8		
PS-63	145	38.5		
PS-64	142	32.3		
PS-65	175	63.2		
LDW-T3-C-TR034-ES-13	203	82.1		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/5/04	Sampling area: T3-C
Retrieval time: 11:58	Start coordinates: X: 47 31.824 d=24'
Collection method/Effort #: TR035	11:53 Y: 122 18.983
Weather: Sunny	End coordinates: X: 47 31.694 d=19'
Sampler: RAC, MGL	11:58 Y: 122 19.766
Comments: 3S-3C	set start: x: 47 31.841 d=24'
Fish count: SS=1 SP=1	11:52 Y: 122
ES=1 PS=1 (4)	wire out: 125'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-C-TR035-SP-02	222	170.8		
LDW-T3-C-TR035-ES-14	272	199.7		
LDW-T3-C-TR035-PS-66	134	27.9		
LDW-T3-C-TR035-SS-~~115~~ 151	95	9.6		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T3-~~D~~C
Retrieval time: 13:06	**Start coordinates:** 13:00 X: 47 31.824 Y: 122 19.981 d = 23'
Collection method/Effort #: TR036	
Weather: sunny	**End coordinates:** 13:06 X: 47 31.695 Y: 122 19.761 d = 18'
Sampler: RAC, MGL	
Comments: 36-3~~D~~C	set start: 12:59 X: 47 31.840 Y: 122 19.008 d = 22'
PS=4 PP=1	
SS=3 ES=4 (12)	Wire out: 125'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-C-TR036-ES-09	305	274.8		
ES-10	296	238.8		
ES-11	325	343.6		
ES-12	295	210.5		
LDW-T3-C-TR036-PS-58	179	79.5		
PS-59	170	62.5		
PS-60	205	101.3		
PS-61	136	36.1		
LDW-T3-C-TR036-SS-~~112~~ 148	98	13.0		
SS-~~113~~ 149	101	11.8		
SS-~~114~~ 150	105	16.1		
LDW-T3-C-TR036-PP-14	184	97.4		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T1-F
Retrieval time: 13:46	**Start coordinates:** 13:40 X: 47 33.530 Y: 122 20.651 d = 28'
Collection method/Effort #: TR037	
Weather: sunny	**End coordinates:** 13:46 X: 47 33.335 Y: 122 20.544 d = 30'
Sampler: RAC, MGL	
Comments: 37-1F	set start: 13:39 X: 47 33.566 Y: 122 20.674 d = 28'
Fish count: SS = 5 PS = 5 ES = 7 PP = 1 (18)	wire out: 175'

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-F-TR037-SS-46	120	19.2		
SS-47	122	19.3		
SS-48	80	5.5		
SS-49	104	13.2		
SS-50	104	13.3		
LDW-T1-F-TR037-ES-51	245	147.2		
ES-52	238	136.1		
ES-53	249	154.4		
ES-54	256	162.3		
ES-55	209	77.0		
ES-56	240	136.2		
ES-57	250	131.7		
LDW-T1-F-TR037-PS-35	160	45.2		
PS-36	138	31.2		
PS-37	101	11.1		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/5/04	Sampling area: T1-F
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort #: TR037	
Weather:	End coordinates: X: Y:
Sampler:	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-F-TR037-PS-38	95	10.5		
PS-39	230	161.6		
LDW-T1-F-TR037-PP-OS	137	33.2		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-A
Retrieval time: 7:43	**Start coordinates:** 7:37 X: 47 33.927 Y: 122 20.919 d = 40'
Collection method/Effort #: TR038	
Weather: Cloudy, rainy	**End coordinates:** 7:43 X: 47 33.732 Y: 122 20.817 d = 40'
Sampler: MGL, DMP	
Comments: 38-1A	set start: 7:36 X: 47 33.967 Y: 122 20.933 d = 33'
Fish count: PS = ~4	
ES = 1	wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-TI-A-TR038-PS-53	172	75.3		
PS-54	100	12.5		
PS-55	131	32.5		
PS-56	100	12.4		
ES-78	262	163.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-A
Retrieval time: 8:07	**Start coordinates:** 8:01 X: 47 33.944 Y: 122 20.916 d= 45'
Collection method/Effort #: TR039	
Weather: cloudy, rainy	**End coordinates:** 8:07 X: 47 33.726 Y: 122 20.813 d= 40'
Sampler: MGL, DMP	
Comments: 39-1A	set start: 8:00 X: 47 33.966 Y: 122 20.930 d= 33'
Fish count: SS=2 PP=1 PS=2	Wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-A-TR039-PP-07	155	48.7		
SS-68	100	11.8		Prolapsed Gut
SS-69	104	19.1		slight Prolapsed gut
PS-57	155	45.0		
PS-58	101	10.6		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-C
Retrieval time: 8:30	**Start coordinates:** 8:25 X: 47 33.664 Y: 122 20.792 d= 30'
Collection method/Effort #: TR040	
Weather: cloudy, rain	**End coordinates:** 8:30 X: 47 33.514 Y: 122 20.703 d= 34'
Sampler: MGL, DMP	
Comments: 40-1C	set start: 8:29 X: 47 33.713 Y: 122 20.814 d= 40'
Fish count: SS=2 PS=3 PP=1 ES=8(?)	Wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-C-TR040-SS-61	116	21.5		Gut rupture
SS-62	114	18.5		Gut rupture
PP-06	170	72.5		Gut rupture
PS-48	221	176.7		
PS-49	151	42.8		
PS-50	102	12.6		
ES-66	246	126		
ES-67	201	89.0		
ES-68	259	186.2		
ES-69	360	400+		too big for scale
ES-70	255	161.9		
ES-71	222	114.5		
ES-72	246	140.0		
ES-73	234	131.1		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T4-B
Retrieval time: 9:36	**Start coordinates:** 9:33 X: 47 31.144 Y: 122 18.211 d = 20'
Collection method/Effort #: TR041	
Weather: cloudy, rain	**End coordinates:** 9:36 X: 47 31.098 Y: 122 18.343 d = 20'
Sampler: MGL, DMP	
Comments: 41-4B (slip 6)	set start: 9:32 X: 47 31.159 Y: 122 18.183 d = 21'
Fish count: SS = 20	
PS = 3	wire out: 125'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR041-SS-95	94	11.4		
LDW-T4-B-TR041-SS-96	96	13.0		
SS-97	103	15.1		
SS-98	109	15.2		
SS-99	92	10.5		Ruptured Gut
SS-100	98	13.1		
SS-101	81	7.2		
SS-102	98	15.1		
SS-103	94	12.1		
SS-104	99	13.7		
SS-105	94	11.3		
SS-106	75	5.4		
SS-107	93	11.6		
SS-108	95	12.3		
SS-109	102	12.1		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/6/04	Sampling area: T4-B
Retrieval time: 9:36	Start coordinates: X: Y:
Collection method/Effort #: TR041	
Weather:	End coordinates: X: Y:
Sampler: MGL, DMP	
Comments:	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR041-SS-110	114	21.5		
SS-111	102	14.7		
SS-112	130	24.0		
SS-113	102	13.9		
SS-114	101	13.1		
PS-38	160	42.5		
PS-39	169	52.7		
PS-40	171	51.9		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T2-D
Retrieval time: 10:16	**Start coordinates:** 10:14 X: 47 32.556 Y: 122 19.923 d = 24'
Collection method/Effort #: TR042	
Weather: cloudy, rain	**End coordinates:** 10:16 X: 47 32.532 Y: 122 20.024 d = 25'
Sampler: MGL, OMP	
Comments: 42-2D (slip 3)	set start: 10:13 X: 47 32.565 Y: 122 19.882 d = 25'
Fish count: SS=7 ES=4 PS=4	wire out: 150'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-D-TR042-PS-30	106	69		
PS-31	111	14.1		
PS-32	120	17.7		
PS-33	110	17.1		
SS-85	97	12.1		
SS-86	92	10.7		
SS-87	95	10.8		
SS-88	97	11.7		
SS-89	102	14.7		
SS-90	102	13.8		
SS-91	101	12.5		
ES-63	266	191.3		
ES-64	246	166.7		
ES-65	230	122.5		
ES-66	198	71.4		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T2-B
Retrieval time: 10:44	**Start coordinates:** 10:41 X: 47 32.797 Y: 122 20.153 d= 26'
Collection method/Effort #: TR043	
Weather: cloudy, rain	**End coordinates:** 10:44 X: 47 32.702 Y: 122 20.240 d=37'
Sampler: MGL, DMP	
Comments: 43-2B (slip 2)	set Start: 10:40 X: 47 32.819 Y: 132 20.240 d= 25'
Fish count: SS = 2	
PS=3	Wire out: 150'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-B-TR043- PS-34	192	101.7		
PS-35	136	31.8		
PS-36	220	148.7		
SS-92	114	19.2		
SS-93	96	11.7		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-F
Retrieval time: 11:06	**Start coordinates:** 11:04 X: 47 33.405 Y: 122 20.517 d= 34'
Collection method/Effort #: TR044	
Weather: Cloudy, rain	**End coordinates:** 11:06 X: 47 33.395 Y: 122 20.595 d=45'
Sampler: MGL, DMP	
Comments: 44-1F (slip 1)	set start: X: 47 33.411 Y: 122 20.459 d= 36' 11:03
Fish count: PS=2 ES=4 SS=5	Wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-F-TR044-ES-74	270	194.7		
ES-75	246	137.7		
ES-76	214	99.7		
ES-77	240	143.4		
PS-51	131	34.3		
PS-52	126	21.9		
SS-63	106	20.8		
SS-64	105	14.6		
SS-65	112	17.0		
SS-66	92	10.9		
SS-67	106	20.6		Gut Rupture

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-C
Retrieval time: 11:27	**Start coordinates:** 11:21 X: 47 33.724 Y: 122 20.822 d = 41'
Collection method/Effort #: TR045	
Weather: cloudy, rain	**End coordinates:** 11:27 X: 47 33.516 Y: 122 20.725 d = 26'
Sampler: MGL, DMP	
Comments: 45-1C	set start: X: 47 33.765 d = 42'
Fish count: ES=1	11:20 Y: 122 20.843
PS=5	Wire out: 200'

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-C-TR045-PS-59	140	37.8		
PS-60	162	52.2		
PS-61	155	45.4		
PS-62	120	18.2		
PS-63	106	14.4		
ES-79	320	337.8		

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4A
Retrieval Time: 0855		Start coordinates	X:
Collection method/Effort #: TR 46			Y:
Weather: Cloudy, ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: PS 17, ES 5, SF 3			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR046-SF-015 ~~DRYER~~	SF	410	>400	
SF-016		270	241.8	
SF017		210	112	
ES-001	ES	340	7400	
ES-002		200	72.7	
ES-003		204	81.9	
ES-004		243	143.2	
ES-005		240	106.7	
PS-092	PS	129	26.1	
PS093		123	20.1	
PS-094		123	18.5	
PS-095		123	~~15.4~~ 21.3	
PS-096		176	70.8	
PS-097		111	16.6	
PS-098		128	35.8	distended abdomen
PS-099		128	23.1	
PS-100		122	24.7	
PS-101		145	48.9	distended abdomen
PS-102		115	17.1	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4A
Retrieval Time: 9:30		Start coordinates	X:
Collection method/Effort #: TR 47			Y:
Weather: Cloudy ~65		End coordinates	X:
Sampler: MGC			Y:
Comments: PP-3, PS-13			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
~~starry flounder~~		~~<100~~		
~~starry flounder~~		~~>100-200~~		
		~~>200~~		
~~shiner surfperch~~		~~65-130~~		
LDW-T4-A-TR047-PS-103	PS	112	16.4	
PS-104		206	122.4	
PS-105		110	15.2	
PS-106		119	18.3	
PS-107		100	13.5	
PS-108		109	13.2	
PS-109		~~70~~ 116	18.0	
PS-110		122	21.2	
PS-111		110	15.1	
PS-112		119	19.1	
PS-113		100	11.1	
PS-114		110	14.4	
PS-115		113	18.8	
PP-004	PP	300	394	ruptured gut
PP-005		226	~~[illegible]~~ 164	
PP-006		160	60.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4B
Retrieval Time: 955		Start coordinates	X:
Collection method/Effort #: TR 48			Y:
Weather: Cloudy ~65		End coordinates	X:
Sampler: MBC			Y:
Comments: PS-4, Northern sculpin			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR048-PS-116	PS	120	18.8	
PS-117	↓	127	26.9	
PS-118	↓	163	48.7	
Northern sculpin			~~24.3~~	non target species

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	3D
Retrieval Time: 10:37		Start coordinates	X:
Collection method/Effort #: TR 49			Y:
Weather: Partly Cloudy		End coordinates	X:
Sampler: MGG			Y:
Comments: SS-3, PP-3, SP-1, SF2, PS-15			
don't need			
one throw away			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-TR049-PP-016	PP	161	57.1	
PP-017	PP	320	7400	tumor on anal fin ruptured gut
SF-010	SF	211	111.9	
SF011	SF	302	352.2	
PS-072	PS	112	15.3	
PS-073		102	16.3	
PS-074		111	~~##~~ 17.0	
PS-075		192	89	
PS-076		163	43.9	
PS-077		111	18.5	
PS-078		168	78.1	
PS-079		239	185.4	
PS-080		171	58.9	
PS-081		139	32.1	
PS-082		111	16.5	
PS-083		109	15.0	
PS-084		112	13.6	
PS-085		100	12.1	
PS-086		191	91	
SP-004	SP	234	218.2	

SC = slender crab
DC = dungeness

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	3-D
Retrieval Time: 1131		Start coordinates	X:
Collection method/Effort #: TR50			Y:
Weather: Partly Cloudy ~ 70°		End coordinates	X:
Sampler: MGC			Y:
Comments: 1 Gavilis, 1 dungeness, 1 SP, 2 SF, 3 PS, 1 ES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-TR050-SC-001	SC	96	127	
LDW-T3-D-TR050-DC-001	DC	96	99.7 ~~94.3~~	
SF-009	SF	320	7400	
PS-069	PS	151	47.9	
PS-070		187	83.7	
PS-071		141	31.8	
SP-003	SP	103	17.6	
ES-015	ES	312	299.3	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	~~B~~ C lots of mud
Retrieval Time: 1245		Start coordinates	X:
Collection method/Effort #: TR51			Y:
Weather: Sunny 70°		End coordinates	X:
Sampler: MGC			Y:
Comments: lots of mud PS-13, SF-1, PP-2			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
~~SS~~		65-150		
LDW-T4-C-TR051-PP-002	PP	213	142.3	
" TR051-PP-003	PP	157	51.5	
" TR051-SF-12	SF	296	288.6	
" TR051-PS-062	PS	114	17.7	
" PS-063		109	15.3	
" PS-064		115	19.6	
" PS-065		100 ~~92~~	13.4	
" PS-066		110	12.5	
" PS-067		121	19.9	
" PS-068		131	27.2	
" PS-069		110	13.7	
" PS-070		149	31.2	
" PS-071		110	16.0	
" PS-072		142	32.1	
" PS-073		122	20.3	
" PS-074		126	18.9	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4C
Retrieval Time: 13:22		Start coordinates	X:
Collection method/Effort #: TR52			Y:
Weather: sunny		End coordinates	X:
Sampler: MGC			Y:
Comments: PS-15, SF2			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TH-C-TR052-PS-075	PS	126	27.7	
" PS-076		125	17.3	
" PS-077		134	25.6	
" PS-078		113	17.4	
" PS-079		127	25.1	
" PS-080		127	26.5	
" PS-081		119	19.6	
" PS-082		164	59.2	
" PS-083		120	18.5	
" PS-084		110	16.6	
" PS-085		146	32.0	
" PS-086		112	16.0	
" PS-087		110	17.5	
" PS-088		112	16.3	
" PS-089		162	53.3	
" PS-090		125	23.6	
" PS-091		121	21.0	
LDW-TH-C-TR052-SF-013	SF	273	243	
" SF-014	"	390	>400	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4D
Retrieval Time: 1357		Start coordinates	X:
Collection method/Effort #: TR53			Y:
Weather: Sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: PS 20, SFC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR053-SF-11	SF	257	171.8g	
LDW-T4-D-TR053-PS-41	PS	153	47.9	
LDW-T4-D-TR053-PS-42		142	42.5	
TR053-PS-43		126	27.1	
TR053-PS-44		162	52.5	
TR053-PS-45		175	60.1	
TR053-PS-46		171	53.4	debris in mouth
TR053-PS-47		115	21.0	
TR053-PS-48		151	29.0	
TR053-PS-49		161	50.4	
TR053-PS-50		135	23.6	
PS-51		200	113.2	
PS-52		117	19.0	
PS-53		134	30.4	appears pregnant - extended abdomen
PS-54		120	18.9	
PS-55		153	39.7	
PS-56		139	22.2	
PS-57		135	24.4	
PS-58		138	24.7	
PS-59		125	18.8	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4D
Retrieval Time: 1357		Start coordinates	X:
Collection method/Effort #: TR053			Y:
Weather: sunny		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR053-PS-60	PS	124	18.6	
" PS-61	"	139	28.0	debris in mouth

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time: 8:20		Start coordinates	X:
Collection method/Effort #: TR54			Y:
Weather: pt cloudy		End coordinates	X:
Sampler: MGL			Y:
Comments: SS-1, ES-1, PS-2, SF-2			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TH-B-TR54-SS-115	SS	140	1.2 34.0	1oz = 28.3 g
LDW-TH-B-TR54-SF-18	SF	200	2.8 79.4	
SF-19	SF	289	8.5 241.0	convert to grams
PS-119	PS	124	0.6 17.0	
PS-120	PS	131	0.8 22.7	
ES-6	ES	364	>400	too heavy (weigh later)

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time: 8:30		Start coordinates	X:
Collection method/Effort #: TR55			Y:
Weather: pt Cloudy ~60°		End coordinates	X:
Sampler: MLC			Y:
Comments: 1 PS, 2 SF			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR55-PS-121	PS	132	25.9	
SF-20	SF	286	288.3	
SF-21	SF	239	164.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time: 845		Start coordinates	X:
Collection method/Effort #: TR 56			Y:
Weather: Pt cloudy ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: DC-1, SF-1, PS 9			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR56-DC-1	DC	117	141.2	♀
SF-22	SF	273	248.1	
PS-122	PS	133	26.9	
PS-123	PS	122	20.6	
PS-124		130	25.8	
PS-125		136	27.5	
PS-126		125	22.1	
PS-127		127	20.8	
PS-128		132	24.2	
PS-129		133	26.3	
PS-130		127	23.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4D
Retrieval Time: 9:17		Start coordinates	X:
Collection method/Effort #: TR57			Y:
Weather: Pt Cloudy 70		End coordinates	X:
Sampler: MGC			Y:
Comments: Mud - not - rinsed 2SF, 3PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR57 SF-23	SF	195	89.0	
SF-24	SF	268	239.8	
PS-131	PS	196	103.2	
PS-132	↓	209	117.9	
PS-133	↓	172	64.9	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4D
Retrieval Time: 10:12		Start coordinates	X:
Collection method/Effort #: TR58			Y:
Weather: sunny ~70°		End coordinates	X:
Sampler: MGL			Y:
Comments: PP-1, SP-8			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR58-PP-7	PP	304	394.5	
SP-1	SP	251	270.7	
SP-2		239	228.5	
SP-3		231	200.4	
SP-4		192	124.7	
SP-5		258	307.8	
SP-6		246	268.6	
SP-7		255	301.6	
SP-8		188	110.2	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	3B
Retrieval Time: 11:14		Start coordinates	X:
Collection method/Effort #: TR 59			Y:
Weather: Sunny ~70°		End coordinates	X:
Sampler: MGL			Y:
Comments: 7 SS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR59-SS-152	SS	135	34.5	
SS-153		101	14.6	
SS-154		104	14.2	
SS-155		136	35.6	
SS-156		113	18.1	
SS-157		110	18.7	
SS-158		113	15.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	3B
Retrieval Time: 12:25		Start coordinates	X:
Collection method/Effort #: TR60			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: ES-1✓, PS 6✓			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR10-PS87		115	14.8	
	PS 88	101	11.3	
	PS 98	123	21.1	
	PS 99	149	35.8	
	PS 100	160	45.9	
	PS 101	99	11.9	
	ES 18	271	196.8	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	3B
Retrieval Time: 12:52		Start coordinates	X:
Collection method/Effort #: TR61			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: SF-2, PS 10, ES 1			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR61-	PS 102	161	49.0	
	PS 103	193	76.7	
	PS 104	144	28.1	
	PS 105	169	49.1	
	PS 106	199	101.1	
	PS 107	203	115.4	
	PS 108	149	35.5	
	PS 109	168	60.9	
	PS 110	123	23.0	
	PS 111	150	41.8	
	ES 19	316	326.7	
	SF 15	310	339.9	
	SF 16	206	87.6	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	3B
Retrieval Time: 13:22		Start coordinates	X:
Collection method/Effort #: TR 62			Y:
Weather: Sunny - 70°		End coordinates	X:
Sampler: MGL			Y:
Comments: DC-1, PS 1			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR62	PS 112	161	52.8	
"	DC 2	127	232.1	

Wind Ward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	8/31/04	Sampling area:	3F
Retrieval Time:	1:50	Start coordinates	X:
Collection method/Effort #:	TR 63		Y:
Weather:	Sunny 70	End coordinates	X:
Sampler:	MGL		Y:
Comments:	2 ES, 2 SF, 1 PP, 3 SS, 9 PS		

SPECIMEN ID #	~~SPECIES~~	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
~~LDW-T3-F-TR63-PS89~~				
LDW-T3-F-TR63-PS89		174	66.2	
LDW-T3-F-TR63-PS90		190	98	
LDW-T3-F-TR63-PS91		206	135.0	
LDW-T3-F-TR63-PS92		181	71.4	
	PS 93	176	75.7	
	PS 94	197	86.2	
	PS 95	180	67.0	
	PS 96	189	83.9	
	PS 97	192	90.4	
	SS 159	119	18.7	
	SS 160	120	21.7	
	SS 161	107	19.5	
	PP 18	210	129.0	
	ES 16	298	273.4	
	ES 17	224	113.3	
	SF 12	207	94.8	
	SF 13	278	268.3	
	SF 14	199	95.0	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4-D
Retrieval Time: 8:40 ~~[illegible]~~ time on sampler, actual time - 8:17		Start coordinates	X:
Collection method/Effort #: TR64			Y:
Weather: Cloudy, ~60°		End coordinates	X:
Sampler: ML, DP			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR64-PS-134		137	32.4	
LDW-T4-D-TR64-PS-135		139	37.8	
PS-136		220	116.1	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4-D
Retrieval Time: 9:00 ~~time on sampler, actual time:~~		Start coordinates	X:
Collection method/Effort #: TR 65			Y:
Weather: Cloudy - ~60		End coordinates	X:
Sampler: ML, DP			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR65-PP-08		174	79.0	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4-B
Retrieval Time: 9:45 + time on samples, actual time - 10:02		Start coordinates	X:
Collection method/Effort #: TR66			Y:
Weather: Pt. Sunny		End coordinates	X:
Sampler: ML, DP			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR66-PS-137		152	41.9	
LDW-T4-B-TR66-PS-138		207	136.7	
LDW-T4-B-TR66-PS-139		194	100.6	
LDW-T4-B-TR66-DC-02		106	131.7	
LDW-T4-B-TR66DC-03		131	285.8	
SF-24		286	298.8	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4-B
Retrieval Time: 10:10 to land on samples, actual time - 10:37		Start coordinates	X:
Collection method/Effort #: TR67			Y:
Weather: Pt Cloudy ~65		End coordinates	X:
Sampler: ML, DP			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR67-DC-04		92	95.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4-B
Retrieval Time: 10:30 trawl or sample, actual time:	10:52	Start coordinates	X:
Collection method/Effort #: TR68			Y:
Weather: Pt Sunny		End coordinates	X:
Sampler: ML, DP			Y:
Comments: 1 Starry Flounder 3 PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR68-SF-25		189	102.2	
LDW-T4-B-TR68-PS-140		137	26.0	
PS-141		151	34.4	
PS-142		171	78.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	3-E
Retrieval Time: 12:00 time on sampler, actual time - 11:32		Start coordinates	X:
Collection method/Effort #: TR69			Y:
Weather: Pt Cloudy		End coordinates	X:
Sampler: ML, DP			Y:
Comments: Tangled Hauls			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-TR69-SP-05		205	140.1	
DC-01		93	102.0	
DP-19		334	>400	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	T-E
Retrieval Time: 12:15 trail on samples, actual time - 11:55		Start coordinates	X:
Collection method/Effort #: TR70			Y:
Weather: Pt sunny ~65		End coordinates	X:
Sampler: ML, DP			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-E-TR70-PS-113		208	111.9	
PS-114		159	52.3	
LDW-T3-E-TR70-ES-20		228	119.3	
ES-21		312	355.9	
ES-22		306	304.4	
PP-20		235	185.4	
PP-21		150	52.2	
PP-22		154	50.1	
SP-06		175	98.1	
SP-07		273	323.1	
SP-08		190	118.9	
SP-09		186	112.2	
SP-10		184	117.8	

time on samples
actual time

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/1/04	Sampling area: 3-A
Retrieval time: ~~1:35~~ 1:07 A	Start coordinates: X: Y:
Collection method/Effort #: TR71	
Weather: Mostly Cloudy ~ 65	End coordinates: X: Y:
Sampler: DMP, ML	
Comments:	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-A-TR71-ES-23	332	339.3		
ES-24	298	245.2		
PS-115	213	141.3		
PS-116	171	73.7		
PP-23	171	74.1		
PP-24	162	56.4		
PP-25	176	77.6		
PP-26	168	54.4		
PP-27	151	41.0		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/2/04	Sampling area: 4D
Retrieval time: 08:20	Start coordinates: X: Y:
Collection method/Effort #: TR72	
Weather: partly cloudy, lt winds, ~65	End coordinates: X: Y:
Sampler: MGL	
Comments: SF 2	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
~~SF~~ LDW-T4-D-TR072-SF-32	~~2~~ 298	279.5		
-SF-33	202	100.3		

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/04	Sampling area: 41
Retrieval time: 08:33	Start coordinates: X: Y:
Collection method/Effort #: TR 73	
Weather: partly cloudy	End coordinates: X: Y:
Sampler: MGL	
Comments: ~~TSS~~ 3SF, 1PS	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-D-TR073-SF-26	390	700		
-SF-27	290	315.2		
-SF-28	283	203.4		
-PS-143	155	40.8		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: ~~04/00~~ 09/02/2004	Sampling area: 4D
Retrieval time: 08:48	Start coordinates: X: Y:
Collection method/Effort #: TR 74	
Weather: partly cloudy, ~65	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 PP. Tree branch in net, lots of barnacles	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-D-TR074-PP-10	175	63.8		

✓

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 4B
Retrieval time: 09:20	Start coordinates: X: Y:
Collection method/Effort #: TR 75	
Weather: partly cloudy	End coordinates: X: Y:
Sampler: MGL	
Comments: 3 PS, 1 SF	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR075-PS-151	129	22.2		
-PS-152	140	30.6		
-PS-153	148	41.5		
-SF-34	192	93.8		

✓

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 4D
Retrieval time: 09:52	Start coordinates: X: Y:
Collection method/Effort #: TR 76	
Weather: partly cloudy, ~70°	End coordinates: X: Y:
Sampler: MGL	
Comments: 2 SF, 4 PS, 1 PP	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-D-TR076 -SF-30	204	88.9		
-SF-31	200	87.2	← ~~missing.~~	
-PP-9	170	64.6		
-PS-147	154	41.6		
-PS-148	174	60.0		
-PS-149	220	140.2		
-PS-150	175	75.4		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: ~~3T~~ 4B
Retrieval time: 11:00	Start coordinates: X: Y:
Collection method/Effort #: TR 77	
Weather: partly cloudy	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 ES, 3 PS, 1 SF	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR077 -PS-144	192	105.4		
-PS-145	185	72.0		
-PS-146	169	49.8		
-ES-19	231	115.1		
-SF-29	265	230.1		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 4B
Retrieval time: 11:18	Start coordinates: X: Y:
Collection method/Effort #: TR 78	
Weather: partly cloudy, ~72°	End coordinates: X: Y:
Sampler: MGL	
Comments: 12 ES, 1 DC	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-B-TR078-ES-7	255	174.3		
-ES-8	305	268.0		
-ES-9	225	110.2		
-ES-10	276	236.7		
-ES-11	245	127.3		
-ES-12	244	131.7		
-ES-13	279	203.9		
-ES-14	264	167.0		
-ES-15	272	185.0		
-ES-16	309	299.7		
-ES-17	250	138.9		
-ES-18	204	85.7		
-DC-5	109	183.5		♀

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3B
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort #: TR 79	
Weather: partly cloudy, ~75°	End coordinates: X: Y:
Sampler: MGL	
Comments: NO keepers. No target species collected	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3A
Retrieval time: 1200	Start coordinates: X: Y:
Collection method/Effort #: TR 80	
Weather: mostly cloudy, ~73°	End coordinates: X: Y:
Sampler: MGL	
Comments: 2PS, 2ES, 1PP	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-A-TR080-PP-28	170	70.0		
LDW-T3-A-TR080-ES-25	295	216.9		
-ES-26	240	131.1		
LDW-T3-A-TR080-PS-117	182	67.5		
-PS-118	220	138.4		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3E
Retrieval time: 1322	Start coordinates: X: Y:
Collection method/Effort #: TR 81	
Weather: mostly cloudy, ~73°	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 ES, 3 PP, 3 PS, 1 ~~PS~~, 2 SF	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR081-SF-18	270	236.8		
-SF-19	228	133.1		
-ES-27	300	272.4		
-PP-31	151	47.1		
-PP-32	159	55.0		
-PP-33	157	53.4		
-PS-124	169	61.2		
-PS-125	171	62.7		
-PS-126	126	22.4		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3E
Retrieval time: 13:55	Start coordinates: X: Y:
Collection method/Effort #: TR82	
Weather: mostly cloudy, ~73	End coordinates: X: Y:
Sampler: MGL	
Comments: 4 PS, 3 PP, 2 PP, 1 SP (disposed)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-E-TR082-PS-120	198	95.4		
-PS-121	194	89.1		
-PS-122	138	32.7		
-PS-123	145	32.1		
-PP-29	210	144.0		
-PP-30	171	65.8		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 09/02/2004	Sampling area: 3F
Retrieval time: 14:35	Start coordinates: X: Y:
Collection method/Effort #: TR83	
Weather: Mostly cloudy	End coordinates: X: Y:
Sampler: MGC	
Comments: 1SP, 1SF, 1PS	

PS had 135 mm SS, WC pulled out of gullet - partly digested

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-F-TR083-SP-11	251	294.4		
-SF-17	219	147.3		
-PS-119	233	163.6		

WindWard environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4D
Retrieval Time: 8:17		Start coordinates	X:
Collection method/Effort #: 1284			Y:
Weather: Cloudy ~60°		End coordinates	X:
Sampler: MGL			Y:
Comments: NO target SP			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4D in channel
Retrieval Time: 8:34		Start coordinates	X:
Collection method/Effort #: TR 85			Y:
Weather: ~~PC~~ Mostly Cloudy		End coordinates	X:
Sampler: MbL			Y:
Comments: ~~5SF~~ 3SF			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-D-TR085	SF-40	236	153.1	
	SF-41	250	158.1	
	SF-42	270	235.2	
	SF-43			
	SF-44			

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	9A
Retrieval Time: 0920		Start coordinates	X:
Collection method/Effort #: TR 86			Y:
Weather: Pt Cloudy ~65 light wind		End coordinates	X:
Sampler: MBC			Y:
Comments: 3 PS, 1 ES, 2 SF, SP-1			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR086-	SP-9	150	73.9	
-	SF-35	285	289.4	
-	SF-36	280	287.2	
-	ES-34	198	82.6	
	PS-154	130	21.6	
	PS-155	130	21.6	
	PS-156	106	13.1	
	PS-157	182	82.0	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	T4A in channel
Retrieval Time: ~~9~~ TR87		Start coordinates	X:
Collection method/Effort #: 9.42			Y:
Weather: Pt Cloudy		End coordinates	X:
Sampler: MGL			Y:
Comments: ~~9~~PS, 1 ES, 3SF 5PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR087 -	PS-158	176	69.3	
	PS-159	146	35.6	
	PS-160	185	84.6	
	PS-161	211	133.1	
	PS-162	223	~~69~~ 168.2	
	SF-37	327	>400	
	SF-38	211	113.7	
	SF-39	290	281.9	
	ES-35	196	78.5	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A in channel
Retrieval Time: 10:19		Start coordinates	X:
Collection method/Effort #: TR 88			Y:
Weather: Mostly Sun		End coordinates	X:
Sampler: MBC			Y:
Comments: 2 PS, 5 ES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR088	PS-163	195	125.2	distended abdomen
	PS-164	210	101.5	
	ES-36	235	126.7	
	ES-37	278	210.1	
	ES-38	318	327.9	
	ES-39	299	269.8	
	ES-40	247	146.1	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A in channel
Retrieval Time: 10:38		Start coordinates	X:
Collection method/Effort #: 7R 89			Y:
Weather: Mostly sunny		End coordinates	X:
Sampler: MBL			Y:
Comments: 2ES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR089	-ES-41	364	263.0	
	-ES-42	225	97.0	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4B in channel
Retrieval Time: 11:00		Start coordinates	X:
Collection method/Effort #: TR 90			Y:
Weather: Mostly sun ~ 70		End coordinates	X:
Sampler: MBL			Y:
Comments: ~~LES~~			
SES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR090	-ES-43	305	276.2	
	-ES-44	284	213.8	
	-ES-45	278	201.5	
	-ES-46	287	261.7	
	-ES-47	262	171.9	
	~~-ES-48~~			

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A in channel
Retrieval Time: 11:27		Start coordinates	X:
Collection method/Effort #: TR91			Y:
Weather: Mostly sunny		End coordinates	X:
Sampler: MGU			Y:
Comments: SES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-A-TR091-	ES-20	324	374.5	wrong time on sample label (1152 instead of 1127)
	-ES-21	328	>400	
	-ES-22	323	308.2	
	-ES-23	254	146.0	
	-ES-24	200	76.1	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4B in channel
Retrieval Time: 11:52		Start coordinates	X:
Collection method/Effort #: TR 92			Y:
Weather: Mostly sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: 9 ES, 2 PP			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T4-B-TR092-	PP-11	166	57.1	
-	PP-12	202	112.1	
-	~~ES-20~~	~~324~~	~~374.5~~	
-	~~ES-21~~	~~328~~	~~>400~~	
-	~~ES-22~~	~~323~~	~~308.2~~	4A TR091
-	~~ES-23~~	~~254~~	~~146.0~~	
-	~~ES-24~~	~~200~~	~~76.1~~	
-	ES-25	252	157.8	
-	ES-26	272	203.0	
-	ES-27	272	188.4	
-	ES-28	261	183.2	
-	ES-29	269	175.7	
-	ES-30	243	134.7	
-	ES-31	257	145.7	
-	ES-32	283	239.4	
-	ES-33	229	103.7	

WindWard environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3B
Retrieval Time: 12:55		Start coordinates	X:
Collection method/Effort #: TR 93			Y:
Weather: Sunny 75		End coordinates	X:
Sampler: MGL			Y:
Comments: None			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3B Channel
Retrieval Time: 1:13		Start coordinates	X:
Collection method/Effort #: TR 94			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: 1 25			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR094-ES-30		310	323.2	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3B IN channel
Retrieval Time: ~~1:25~~ 1:31		Start coordinates	X:
Collection method/Effort #: TR 95			Y:
Weather: sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: 7 PP, 1 PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR095-	PP-34	162	61.9	
-	PP-35	171	61.5	
-	PP-36	170	64.3	ruptured gut
-	PP-37	173	75.4	
-	PP-38	153	49.4	
-	PP-39	172	57.9	
-	PP-40	204	97.2	
-	PS-135	126	21.8	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3D edge of channel
Retrieval Time: 1:53		Start coordinates	X:
Collection method/Effort #: TR 96			Y:
Weather: Sunny ~ 70		End coordinates	X:
Sampler: MBC			Y:
Comments: 2ES, 8PS, 1SP, 2SF			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-TR096-	ES-28	315	356.3	
-	ES-29	244	143.6	
-	PS-127	177	82.4	distended abdomen
-	PS-128	172	57.2	
-	PS-129	226	143.6	
-	PS-130	181	70.5	
-	PS-131	167	54.1	
-	PS-132	190	84.0	
-	PS-133	226	128.7	
-	PS-134	190	84.2	
-	SP-12	185	113.7	
-	SF-20	386	>140.0	
-	SF-21	215	100.4	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3B in channel
Retrieval Time: 7:50		Start coordinates	X:
Collection method/Effort #: TR97			Y:
Weather: Sunny ~60°		End coordinates	X:
Sampler: MGL			Y:
Comments: 1PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-TB-B-TR97-PS155		206	118.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3B channel
Retrieval Time: 8:04		Start coordinates	X:
Collection method/Effort #: 7R 98			Y:
Weather: Sunny ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: 1ES, 1CC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR98-	ES 41	304	271.5	
	SC 11	97	~~10~~ 160.0	♂

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3B in channel
Retrieval Time: 8:20		Start coordinates	X:
Collection method/Effort #: TR 99			Y:
Weather: Sunny ~68		End coordinates	X:
Sampler: MGL			Y:
Comments: 1 ES			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-B-TR99-ES39		267	174	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3D channel
Retrieval Time: 8:51		Start coordinates	X:
Collection method/Effort #: TRIW			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: No target sp			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3P (channel)
Retrieval Time: 9:05		Start coordinates	X:
Collection method/Effort #: TR 101			Y:
Weather: Sunny ~70°		End coordinates	X:
Sampler: MbL			Y:
Comments: 3PP			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-D-TR101-	PP59	166	59.7	ruptured gut
	PP60	160	57.5	
	PP61	176	67.0	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3F
Retrieval Time: 9:32		Start coordinates	X:
Collection method/Effort #: TR102			Y:
Weather: Sunny ~70°		End coordinates	X:
Sampler: MGC			Y:
Comments: 1PP, 2PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-TR102-1	PP 055	219	150.1	
	PS 153	177	77.8	
	PS 154	190	70.7	
	PS 155			

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3F ch
Retrieval Time: 9:52		Start coordinates	X:
Collection method/Effort #: TR 103			Y:
Weather: Sunny 70°		End coordinates	X:
Sampler: MGL			Y:
Comments: 1ES, 2PP, 1DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-T3-F-TR	103-PP 56	163	61.2	
	-PP 57	213	134.2	
	-ES 40	220	102.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	SE channel
Retrieval Time: 10:12		Start coordinates	X:
Collection method/Effort #: TR 104			Y:
Weather: Sunny ~70°		End coordinates	X:
Sampler: MBL			Y:
Comments: ~~TC~~ too small			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	~~#A~~ 3A
Retrieval Time: 10:29		Start coordinates	X:
Collection method/Effort #: 7R105			Y:
Weather: sunny ~70		End coordinates	X:
Sampler: MGC			Y:
Comments: 1 PS			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
LDW-~~T3~~-A-TR105-PS	152	126	20.6	

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3rd channel
Retrieval Time: 10:43		Start coordinates	X:
Collection method/Effort #: TR 106			Y:
Weather: Sunny ~ 70°		End coordinates	X:
Sampler: MGL			Y:
Comments: NO keepers			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3A ~~4A~~ shoulder
Retrieval time: 11:00	Start coordinates: X: Y:
Collection method/Effort #: TR 107	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler: MGL	
Comments: ~~NONE~~ 1DC	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-A-TR107-DC11	119	192		♀

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3 & 13 shoulder
Retrieval time: 11:15	Start coordinates: X: Y:
Collection method/Effort #: TR108	
Weather: Sunny ~ 70°	End coordinates: X: Y:
Sampler: MGL	
Comments: NONE	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3 B
Retrieval time: 11:26	Start coordinates: X: Y:
Collection method/Effort #: TR 109	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler: MGC	
Comments: 1PP, 1PS	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-B-TR109- PP 58	174	67.8		
PS156	132	22.8		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/7/04	Sampling area: 3F channel
Retrieval time: 11:52	Start coordinates: X: Y:
Collection method/Effort #: TR 110	
Weather: Sunny ~ 70	End coordinates: X: Y:
Sampler: MGL	
Comments: 2 DC, 5 PP, 3 PS, 7 ES	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-F-TR110-ES32	328	404.3		
ES 33	280	170.9		
ES 34	418	>400		
ES 35	300	248.0		
ES 36	213	96		
ES 37	281	183.1		
ES 38	203	86.0		
PS 147	190	93.2		
PS 148	194	100.9		
PS 149	188	78.2		
PP 47	199	112		Ruptured gut
PP 48	175	71.7		very ruptured gut
PP 49	217	137.2		
PP 50	153	51.1		Ruptured gut
PP 51	157	54.8		
DC 9	101	131.4		female
DC 10	119	209.4		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/7/04	Sampling area: 3F channel
Retrieval time: 1310	Start coordinates: X: Y:
Collection method/Effort #: TR 111	
Weather: sunny ~70	End coordinates: X: Y:
Sampler: MGC	
Comments: 1PP, 2PS	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T3-F-TR111-PS150	234	174		
PS151	193	81.5		
PP 54	154	46.0		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3D channel
Retrieval time: 13:33	Start coordinates: X: Y:
Collection method/Effort #: TR 112	
Weather: Sunny ~ 75°	End coordinates: X: Y:
Sampler: MGC	
Comments: 2 PP, ~~1 DCE~~	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
CDW-T3-D-TR112-PP52	220	139.9		
PP 53	228	155.9		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3D channel
Retrieval time: 14:09	Start coordinates: X: Y:
Collection method/Effort #: TR113	
Weather: Sunny ~ 75	End coordinates: X: Y:
Sampler: MGW	
Comments: 1 ES, 6 PP, 1 PS, 1 DC	

↔ indicates length & weight are reversed

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T3-D-TR113-ES 31	384.5	355		
-PS 1/6	211	111.1		
-PP 41	72.8	174		Ruptured gut
PP 42	63.1	175		
PP 43	56.0	157		Ruptured gut
PP 44	65.0	170		"
PP 45	20.5	1.20		
PP 46	53.3	156		Ruptured gut
DC 8	100	127.3		Male

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 1D
Retrieval time: 14:55	Start coordinates: X: Y:
Collection method/Effort #: TR 114	
Weather: Sunny ~ 75	End coordinates: X: Y:
Sampler: MGL	
Comments: 2 PS	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-D-TR114-PS 112	198	89.5		
PS 113	179	63.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/7/04	Sampling area: 1D channel
Retrieval time: 14:55	Start coordinates: X: Y:
Collection method/Effort #: TR 115	
Weather: Sunny ~ 75	End coordinates: X: Y:
Sampler: 146C	

Comments: 1ES, 1DC, 1PP, 4PS, 1SS

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-D-TR115-ES80	304	254.4		
PS108	168	60.8		
PS109	189	64.2		
PS110	180	75.5		
PS111	128	24.2		
PP8	190	87.9		Ruptured gut
DC27	138	288.0		
SS70	134	24.0		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 2E edge of channel
Retrieval time: 8:00	Start coordinates: X: Y:
Collection method/Effort #: TR116	
Weather: Sunny ~60	End coordinates: X: Y:
Sampler: MG	
Comments: 1ES, 4PS, 8SS	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-E-TR116-ES-67	208	87.8		
-PS-93	214	122.3		
-PS-94	179	82.4		
-PS-95	159	44.4		
-PS-96	136	30.2		
-SS-102	103	12.0		
-SS-103	100	12.1		
-SS-104	105	14.5		
-SS-105	144	39.8		prolap cloaca
-SS-106	97	13.0		prolap. cloaca
-SS-107	106	14.2		
-SS-108	119	19.7		
-SS-109	94	11.8		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 2XE channel & note: actually 2E
Retrieval time: 8:27	Start coordinates: X: Y:
Collection method/Effort #: TR117	
Weather: Sunny ~60	End coordinates: X: Y:
Sampler: MGL	
Comments: 2SC, 3SS, 1ES, 1PP	

fish

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-E-TR117-SC-118	90	120.3	M	
-SC-119	90	127.0	M	
-SS-80	120	21.5		prolapsed cloaca
-SS-81	109	14.0		
-SS-82	108	13.6		
-ES-84	233	113.5		
-PP-9	275	270.1		

Mislabled should be T2-E

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	**Sampling area:** 2F edge of channel
Retrieval time: 8:48	**Start coordinates:** X: Y:
Collection method/Effort #: TR 118	
Weather: Sunny ~60	**End coordinates:** X: Y:
Sampler: MGL	

Comments: 2PP, 1SC, 4PS, 3SS

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-F-TR118-SC-80	108	205.4	M	
-PP-17	223	154.5		
-PP-18	209	115.0		
-PS-88	186	85.3		
-PS-89	197	93.6		
-PS-90	118	17.9		
-PS-91	117	17.0		
-SS-94	122	22.9		prolapsed cloaca
-SS-95	118	21.0		
-SS-96	126	21.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 2F channel
Retrieval time: 9:21	Start coordinates: X: Y:
Collection method/Effort #: TR 119	
Weather: Sunny ~ 65	End coordinates: X: Y:
Sampler: MBL	
Comments: 1 SC, 5 SS, 1 PS	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-F-TR119-SC-81	95	~~2~~ 158.9	M	
-SS-97	115	18.0		
-SS-98	120	21.9		
-SS-99	114	17.7		
-SS-100	104	14.7		
-SS-101	108	15.0		prolapsed cloaca
-PS-92	125	20.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 4C channel
Retrieval time: 10:02	Start coordinates: X: Y:
Collection method/Effort #: TR120	
Weather: Sunny ~60	End coordinates: X: Y:
Sampler: MBL	
Comments: GSS	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T4-C-TR120-SS-116	106	14.7		
-SS-117	132	28.2		
-SS-118	122	25.2		
-SS-119	110	16.9		
-SS-120	121	22.3		
-SS-121	126	25.0		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: Sch
Retrieval time: 10:24	Start coordinates: X: Y:
Collection method/Effort #: TR121	
Weather: Sunny ~ 65	End coordinates: X: Y:
Sampler: MHL	

Comments: No keepers

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 1B
Retrieval time: 11:16	Start coordinates: X: Y:
Collection method/Effort #: TR122	
Weather: Sunny ~ 65	End coordinates: X: Y:
Sampler: MBL	
Comments: 1DC, 1RC	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-B-TR122-RC-10	135	338.3	F	
= DC-33	201	>400	M	

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 1B channel
Retrieval time: 11:40	Start coordinates: X: Y:
Collection method/Effort #: TR123	
Weather: Sunny ~65	End coordinates: X: Y:
Sampler: MGL	
Comments: 1SS, 1SC	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-B-TR123-SS-83	106	12.2		
-SC-120	94	135.1	M	

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 1D Channel
Retrieval time: 12:25	Start coordinates: X: Y:
Collection method/Effort #: TR124	
Weather: pt cloudy ~65 wind from SSW ~15 mph	End coordinates: X: Y:
Sampler: MBL	
Comments: 1RF, 1PS, 1SS	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-D-TR124-RF-2	300	>400		
-PS-117	114	16.4		
-SS-79	106	14.4		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 1A edge of channel
Retrieval time: 1301	Start coordinates: X: Y:
Collection method/Effort #: TR125	
Weather: Pt Cloudy ~65	End coordinates: X: Y:
Sampler: MGL	
Comments: 4SS, 1PS, 1ES (No pigment on caudal peduncle)	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-A-TR125-SS-75	116	16.6		
-SS-76	113	15.9		
-SS-77	123	22.3		
-SS-78	107	12.4		
-PS-116	198	101.4		
-ES-83	245	131.6		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 1C
Retrieval time: 1:27	Start coordinates: X: Y:
Collection method/Effort #: TR126	
Weather: Pt cloudy	End coordinates: X: Y:
Sampler: MGC	

Comments: 5DC, 1RC, 2ES, 2PS, 5SS

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-C-TR126-DC-28	170	>400	M	
-DC-29	156	>400	M	
-DC-30	132	291.7	M	
-DC-31	130	269.4	M	
-DC-32	113	154.6	F	Missing left claw, soft shell
-RC-9	153	373.8	M	
-SC-117	113	244.8	M	
-ES-81	208	83.0		
-ES-82	209	87.7		
-PS-114	134	25.3		
-PS-115	138	24.3		
-SS-71	118	19.4		
-SS-72	128	22.0		
-SS-73	103	12.6		
-SS-74	104	12.8		
-SS-75	85	6.6		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 3A set 1
Retrieval time: 1045	**Start coordinates:** X: 122 19.183 W; Y: 47 31.898 N
Collection method/Effort #: Seine	
Weather: overcast	**End coordinates:** X: 122 19.194; Y: 47 31.911
Sampler: JMF + Taylor crew	

Comments: At beach on west side at the South Park Park (page 1)

LDW-T3-A-SN01

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
Sculpin (2)	195, 170	—	—	
Shiner perch	≥8cm	—	—	collected 20
Shiner perch	<8cm	—	—	released 267
Shiner perch	≥8cm	—	—	released 45
Processing Info:				
✓ LDW-T3-A-SN001-SS-1	135	34		
✓ LDW-T3-A-SN001-SS-2	126	25.5		
✓ LDW-T3-A-SN001-SS-3	127	28.5		
✓ LDW-T3-A-SN001-SS-4	125	28		
✓ LDW-T3-A-SN001-SS-5	122	22		
✓ LDW-T3-A-SN001-SS-6	139	37.5		
✓ LDW-T3-A-SN001-SS-7	114	20		
✓ LDW-T3-A-SN001-SS-8	112	21.5		
✓ LDW-T3-A-SN001-SS-9	131	30		

Collection info.

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: 3A
Retrieval time: 1045	Start coordinates: X: Y:
Collection method/Effort #: SN001	
Weather:	End coordinates: X: Y:
Sampler: JMF	
Comments: CONT. (page 2)	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T3-A-SN001-SS-10	122	26		
✓ LDW-T3-A-SN001-SS-11	116	21		
✓ LDW-T3-A-SN001-SS-12	121	21		
✓ LDW-T3-A-SN001-SS-13	195	19		
✓ LDW-T3-A-SN001-SS-14	120	22		
✓ LDW-T3-A-SN001-SS-15	118	23		
✓ LDW-T3-A-SN001-SS-16	130	29		
✓ LDW-T3-A-SN001-SS-17	106	16		
✓ LDW-T3-A-SN001-SS-18	118	23		
✓ LDW-T3-A-SN001-SS-19	129	28		
✓ LDW-T3-A-SN001-SS-20	101	10.6		
✓ LDW-T3-A-SN001-SS-21	100	14		
✓ LDW-T3-A-SN001-SS-22	107	18.5		
✓ LDW-T3-A-SN001-PS-1	186	80		
✓ LDW-T3-A-SN001-PS-2	166	52		

Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 3D - set 2
Retrieval time: 1145	**Start coordinates:** X: 122 18.915 W; Y: 47 31.829 N
Collection method/Effort #: beach seine	
Weather: overcast	**End coordinates:** X: 122 18.911 W; Y: 47 31.824 N
Sampler: JMF + Taylor	
Comments:	

LDW-T3-D-SN02

	Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
collection info	shiner perch	>8cm	—	—	12 collected
	shiner perch	<8cm	—	—	223 released
	staghorn sculpin	10cm	—	—	1 collected
	Processing info:				
✓	LDW-T3-D-SN002-SS-23	101	15.0		
✓	LDW-T3-D-SN002-SS-24	101	14.0		
✓	LDW-T3-D-SN002-SS-25	101	12.0		
✓	LDW-T3-D-SN002-SS-26	94	11.0		
✓	LDW-T3-D-SN002-SS-27	95	13.0		
✓	LDW-T3-D-SN002-SS-28	99	13.0		
✓	LDW-T3-D-SN002-SS-29	103	15.0		
✓	LDW-T3-D-SN002-SS-30	104	18.0		
✓	LDW-T3-D-SN002-SS-31	92	11.5		
✓	LDW-T3-D-SN002-SS-32	91	11.0		

Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** T3D - Set 2 (Page 2)
Retrieval time: 11:45	**Start coordinates:** X: 122 18 915 W; Y: 47 31 829 N
Collection method/Effort #: beach seine	
Weather: overcast	**End coordinates:** X: 122 18 911 W; Y: 47 31 824 N
Sampler: JMF + Taylor	

Comments:

Page 2

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
✓ LDW-T3-D-SN002-SS-33	92	11.0		
✓ LDW-T3-D-SN002-SS-34	93	11.5		
✓ LDW-T3-D-SN002-PS-03	100	11.0		

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Windward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 3F - set 3
Retrieval time: 1210	**Start coordinates:** X: 122 18.652 Y: 47 31.672
Collection method/Effort #: beach seine	
Weather: over cast w/ sun breaks	**End coordinates:** X: 122 18.644 Y: 47 31.672
Sampler: JMF + Taylor	

Comments: Southend of Boeing Plant 2 across from the Southern most end of South Park Marina

LDW-T3-F-SN03

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target species				

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 4E - set 4
set @1335 **Retrieval time:** 1340	**Start coordinates:** X: 122 17.861 W / Y: 47 30.715 N
Collection method/Effort #: beach seine	
Weather: sunny	**End coordinates:** X: 122.17.850 W / Y: 47 30.712 N
Sampler: JMF + Taylor	

Comments: In front of Norfolk CSO on ~~west~~ east side

LDW-T4-E-SN04-SS

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
starry flounder	210	—	—	collected 1
Processing Info:				
✓ LDW-T4-E-SN04-SF-01	210	121.0g		

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Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 4E - set 5
Retrieval time: 1905	**Start coordinates:** X: 122 17.648 Y: 47 30.640 N
Collection method/Effort#: beachseine	
Weather: Sunny	**End coordinates:** X: 122 17.830 Y: 47 30.657
Sampler: JMF + Taylor	

Comments: ~~East~~ West side of river just North of auto bridge for Boeing oxbow lot

LDW-T4-E-SN005

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Set failed due to snag in river caught on net.				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 813104	Sampling area: 1B
Retrieval time: 10:05	Start coordinates: X: 122 20.755 N
Collection method/Effort #: beach seine 6	Y: 47 33.971 W
Weather: overcast, light rain	End coordinates: X: 122 20.757 N
Sampler: JMF + Taylor	Y: 47 33.965 W
Comments:	

LDW-T1-B-SN006

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target spp. collected				

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Wind Ward environmental LLC

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1 B
Retrieval time: 10:35	Start coordinates: X: 122 20.73 W
Collection method/Effort #: beach seine 7	Y: 47 33.891 N
Weather: overcast	End coordinates: X: NA
Sampler: JMF, Taylor	Y: NA

Comments: current too strong to pull in seine

LDW-T1-B-SN007

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target spp. collected.				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1D
Retrieval time: 10:60	Start coordinates: X: 122 20.679 W
Collection method/Effort #: beach seine 8	Y: 47 33.662 N
Weather: sunny w some clouds	End coordinates: X: 122 20.669 W
Sampler: JMF, Taylor	Y: 47 83.641 N
Comments:	

LDW-T1-D-SN008

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target spp. collected				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1B
Retrieval time: 1120	Start coordinates: X: 122 20.742 Y: 47 33.818
Collection method/Effort #: beach seine/set 9	
Weather: sunny, partially cloudy	End coordinates: X: 122 20.728 Y: 47 33.803
Sampler: JMF, Taylor	
Comments: 9h 1B	

LDW-T1-B-SN009

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T1-B-SN009-SS-18	98	12		
LDW-T1-B-SN009-SS-19	104	14.5		
LDW-T1-B-SN009-SS-20	94	11.5		
LDW-T1-B-SN009-SS-21	97	12		
LDW-T1-B-SN009-SS-22	96	12.5		
LDW-T1-B-SN009-SS-23	105	15.5		
LDW-T1-B-SN009-SS-24	108	12		
LDW-T1-B-SN009-SS-25	110	20.5		
LDW-T1-B-SN009-SS 26	99	13		
LDW-T1-B-SN009-SS-27	108	16		ruptured gut
LDW-T1-B-SN009-SS-28	99	12.5		"
LDW-T1-B-SN009-SS-29	107	18		
LDW-T1-B-SN009-SS 30	119	20.5		ruptured gut
LDW-T1-B-SN009-SS-31	98	12.5		ruptured gut
LDW-T1-B-SN009-SS-32	111	19		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1B
Retrieval time: 1120	Start coordinates: X: 122 20.742 Y: 47 33.818
Collection method/Effort #: beach seine/set 9	
Weather: sunny, partially cloudy	End coordinates: X: 122 20.728 Y: 47 33.803
Sampler: JMF, Taylor	
Comments: 1B	

Continued (Page 2)

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
LDW-T1-B-SN009-SS-33	109	17		
LDW-T1-B-SN009-SS-34	97	12		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 2B
Retrieval time: 12:25	Start coordinates: X: 122. 20. 182 W
Collection method/Effort #: beach seine 10	Y: 47 32. 720 N
Weather: partly cloudy	End coordinates: X: 122 20. 184 W
Sampler: JMF, Taylor	Y: 47 32.709

Comments: beach south of the mouth of slip between 2 loading docks

LDW-T2-B-SN010

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target spp. collected				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 2B
Retrieval time: ~~12:25~~ 12:45	Start coordinates: X: 122 20.181 W
Collection method/Effort #: beach seine / set 11	Y: 47 32.694 N
Weather: sunny, partially cloudy	End coordinates: X: 122 20.184 W
Sampler: JMF + Taylor	Y: 47 32.684 N
Comments: seine 11 - 2B	

LDW-T2-B-SN011

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T2-B-SN011-SS-47	114	17.5		
LDW-T2-B-SN011-SS-48	112	17.5		
LDW-T2-B-SN011-SS 49	97	11.5		
LDW-T2-B-SN011-SS-50	102	15		ruptured gut
LDW-T2-B-SN011-SS-51	127	26		
LDW-T2-B-SN011-SS-52	110	13		
LDW-T2-B-SN011-SS-53	110	18		
LDW-T2-B-SN011-SS-54	102	14.5		ruptured gut
LDW-T2-B-SN011-SS-55	103	14.5		ruptured gut
LDW-T2-B-SN011-SS-56	107	16.5		
LDW-T2-B-SN011-SS-57	104	14		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/09	Sampling area: 3C
Retrieval time: 13:35	Start coordinates: X: 122 18.908
Collection method/Effort #: beach seine 12	Y: 47 31.756
Weather: partly cloudy	End coordinates: X: 122 18.937
Sampler: JMF, Taylor	Y: 47.31.770
Comments:	

LDW-T3-C-SN012

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
no target species collected				

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 4C
Retrieval time: 1425	Start coordinates: X: 122 18.124 Y: 47 30.726
Collection method/Effort #: beach seine/set 13	
Weather: sunny	End coordinates: X: 122 18.136 Y: 47 30.720
Sampler: JMP + Taylor	
Comments:	

LDW-T4-C-SN013

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-SN013- ~~PS~~ US-35	134	24		not staghorn sculpin unknown sculpin spp.
LDW-T4-C-SN013-PS-36	110	16		
LDW-T4-C-SN013-PS-37	100	11		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 4C
Retrieval time: 1500	Start coordinates: X: Y:
Collection method/Effort #: beach seine/set 14	
Weather: sunny	End coordinates: X: Y:
Sampler: Joanna + Taylor	
Comments:	

LDW-T4-C-SN014

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-SN014-SS-81	103	13.5		
LDW-T4-C-SN014-SS-82	116	16		
LDW-T4-C-SN014-SS-83	109	13		
LDW-T4-C-SN014-SS-84	100	13		
LDW-T4-C-SN014-SS-85	109	16		
LDW-T4-C-SN014-SS-86	102	13		
LDW-T4-C-SN014-SS-87	113	18.5		
LDW-T4-C-SN014-SS 88	104	13.5		
LDW-T4-C-SN014-SS-89	100	13		ruptured gut
LDW-T4-C-SN014-SS-90	101	14.5		
LDW-T4-C-SN014-SS 91	100	15.5		
LDW-T4-C-SN014-SS 92	107	16.5		
LDW-T4-C-SN014-SS 93	96	13		
LDW-T4-C-SN014-SS 94	95	10.5		
LDW-T4-C-SN014-PS-32	122	20.5		

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 40
Retrieval time: 1500	Start coordinates: X: Y:
Collection method/Effort #: beach seine / set 14	
Weather: sunny	End coordinates: X: Y:
Sampler: JMF, Taylor	
Comments:	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
LDW-T4-C-SN014-PS-33	138	28		
LDW-T4-C-SN014-PS-34	110	16		

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: Crab Traps			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
~~BL-TR-ES-1~~				
BL-CT-DC-1		148	>400	Female
BL-CT-DC-2		167	>400	Male
BL-CT-DC-3		142	382	Female
BL-CT-DC-4		157	>400	Female
BL-CT-DC-5		146	>400	Female
BL-CT-DC-6		141	>400	female
BL-CT-DC-7		142	347.4	female
BL-CT-DC-8		151	>400	female
BL-CT-DC-9		139	354.8	female
BL-CT-DC-10		171	>400	Male
BL-CT-DC-11		150	>400	female
BL-CT-DC-12		166	>400	Male
BL-CT-DC-13		166	>400	Male
BL-CT-DC-14	✓	172	>400	female
BL-CT-DC-15		172	>400	female
BL-CT-DC-16	✓	172	>400	male
BL-CT-DC-17	✓	196	>400	male
BL-CT-DC-18	✓	163	>400	female
BL-CT-DC-19		144	>400	female

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: Crab traps			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-CT-DC-20		158	>400	female
BL-CT-DC-21		184	>400	male
BL-CT-DC-22		174	>400	female
BL-CT-DC-23		143	>400	female
BL-CT-DC-24		157	>400	female
BL-CT-DC-25		153	>400	male
BL-CT-DC-26		160	>400	male
BL-CT-DC-27		146	>400	male
BL-CT-DC-28		144	>400	missing one claw, male
BL-CT-DC-29		146	>400	female
BL-CT-DC-30		147	>400	female
BL-CT-DC-31		147	>400	male
BL-CT-DC-32		162	>400	female
BL-CT-DC-33		169	>400	male
BL-CT-DC-34		172	>400	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: Crab Traps			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-CT-SC-1		115	252.6	Male
BL-CT-SC-2		95	155.4	male
BL-CT-SC-3		95	148.3	male
BL-CT-SC-4		107	223.4	male
BL-CT-SC-5		94	173.7	male

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/09		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #:			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-TR-ES-1		222	117.1	
BL-TR-ES-2		233	104.1	
BL-TR-ES-3		229	116.5	
BL-TR-ES-4		237	126.3	
BL-TR-ES-5		251	148.2	
BL-TR-ES-6		235	124.7	
BL-TR-ES-7		250	138.6	
BL-TR-ES-8		239	120.8	
BL-TR-ES-9		247	133.6	
BL-TR-ES-10		247	124.8	
BL-TR-ES-11		223	121.3	
BL-TR-ES-12		249	128.0	
BL-TR-ES-13		261	168.9	
BL-TR-ES-14		237	119.3	
BL-TR-ES-15		270	153.2	
BL-TR-ES-16		234	116.4	
BL-TR-ES-17		233	120.3	
BL-TR-ES-18		239	107.0	
BL-TR-ES-19		275	185.0	
BL-TR-ES-20		287	192.7	

WindWard environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #:			Y:
Weather: Cloudy ~60-65°		End coordinates	X:
Sampler: MLG			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-TR-ES-21		253	167.5	
BL-TR-ES-22		250	138.3	
BL-TR-ES-23		285	204.4	
BL-TR-ES-24		257	150.4	
BL-TR-ES-25		250	156.0	
BL-TR-ES-26		296	217.3	
BL-TR-ES-27		306	248.5	
BL-TR-ES-28		270	173.5	
BL-TR-ES-29		278	182.8	
BL-TR-ES-30		348	390.1	
BL-TR-ES-31		354	>400	
BL-TR-ES-32		274	159.7	
BL-TR-ES-33		251	151.4	
BL-TR-ES-34		350	338.1	
BL-TR-ES-35		288	196.4	
BL-TR-ES-36		258	144.0	
BL-TR-ES-37		272	193.0	
BL-TR-ES-38		265	184.0	
BL-TR-ES-39		284	193.7	
BL-TR-ES-40		324	306.8	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #:			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MLG			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-TR-ES-41		292	213.7	
BL-TR-ES-42		326	288.9	
BL-TR-ES-43		351	>400	
BL-TR-ES-44		328	283.0	
BL-TR-ES-45		384	>400	
BL-TR-ES-46		386	>400	
BL-TR-ES-47		299	170.5	
BL-TR-ES-48		350	372.9	
BL-TR-ES-49		383	>400	
BL-TR-ES-50		284	198.5	

✓ Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #:			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MUL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-TR-SS-1		80	4.7	
BL-TR-SS-2		77	5.4	guts ruptured
BL-TR-SS-3		116	21.1	
BL-TR-SS-4		113	16.4	
BL-TR-SS-5		107	14.4	
BL-TR-SS-6		104	14.2	
BL-TR-SS-7		112	18.2	
BL-TR-SS-8		132	34.8	
BL-TR-SS-9		146	45.8	
BL-TR-SS-10		123	21.3	
BL-TR-SS-11		102	12.1	
BL-TR-SS-12		110	16.0	
BL-TR-SS-13		131	31.2	
BL-TR-SS-14		127	25.9	
BL-TR-SS-15		120	22.2	
BL-TR-SS-16		121	22.9	
BL-TR-SS-17		105	14.1	
BL-TR-SS-18		103	13.4	
BL-TR-SS-19		119	22.5	
BL-TR-SS-20		113	16.4	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/14/04		Sampling area:	Blake Island
Retrieval Time:		Start coordinates	X:
Collection method/Effort #:			Y:
Weather: Cloudy ~60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-TR-SS-21		116	19.4	
BL-TR-SS-22		136	38.5	
BL-TR-SS-23		102	13.6	
BL-TR-SS-24		110	17.6	
BL-TR-SS-25		107	17.1	
BL-TR-SS-26		100	13.0	
BL-TR-SS-27		120	21.7	
BL-TR-SS-28		144	45.0	
BL-TR-SS-29		107	16.6	
BL-TR-SS-30		124	25.8	
BL-TR-SS-31		116	20.6	
BL-TR-SS-32		109	17.8	
BL-TR-SS-33		132	25.5	
BL-TR-SS-34		116	24.5	
BL-TR-SS-35		118	20.2	
BL-TR-SS-36		104	13.3	
BL-TR-SS-37		115	21.2	
BL-TR-SS-38		118	24.5	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/16/04		Sampling area:	Blake Island
Retrieval Time: N/A		Start coordinates	X:
Collection method/Effort #: All STF Shrimp traps			Y:
Weather: Cloudy ~60		End coordinates	X:
Sampler: MBL			Y:
Comments: 6SC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
BL-ST-SC 6		108	209.0	M
-SC-7		91	143.3	
-SC-8		99	161.4	
-SC-9		91	142.1	
-SC-10		96	153.9	
-SC-11		95	150.9	

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09/16/04		Sampling area:	~~EP~~ East Passage
Retrieval Time: 16:30		Start coordinates	X:
Collection method/Effort #: CT 1-12, ST 1-6, TR 1-4			Y:
Weather: Rain		End coordinates	X:
Sampler: MGL			Y:
Comments: 36 DC, 53 ES, 4 SC, 4 SS, 1 SP all fish - TR, all SC - ST all DC - CT			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
EP-CT-DC-1		147	>400	F
-DC-2		138	393.9	F
-DC-3		137	340.1	F
-DC-4		148	>400	F
-DC-5		147	>400	F
-DC-6		158	>400	F
-DC-7		166	>400	F
-DC-8		153	>400	F
-DC-9		147	>400	F
-DC-10		148	>400	F
-DC-11		153	>400	F
-DC-12		140	>400	F
-DC-13		149	>400	F
-DC-14		138	359.4	F
-DC-15		168	>400	M
-DC-16		181	>400	M
-DC-17		160	>400	F
-DC-18		187	>400	M
-DC-19		150	>400	F
-DC-20		162	>400	F

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Fish And Crab Tissue Collection Form

~~Non-Target Species Tally Form~~

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: ~~EP~~ East Passage
Retrieval time: 16:30	Start coordinates: X: Y:
Collection method/Effort#:	
Weather:	End coordinates: X: Y:
Sampler:	
Comments:	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
EP-CT-DC-21		151	>400	F
-DC-22		158	>400	F
-DC-23		164	>400	F
-DC-24		144	381.8	F
-DC-25		159	>400	F
-DC-26		153	>400	F
-DC-27		159	>400	F
-DC-28		146	>400	F
-DC-29		162	>400	F
-DC-30		152	>400	F
-DC-31		154	>400	F
-DC-32		186	>400	M
-DC-33		143	374.8	F
-DC-34		133	340.1	F
-DC-35		162	>400	F
~~-DC-36~~	?			
EP-ST-SC-1		101	171.4	M ST
-SC-2		109	227.5	M ↓
-SC-3		101	184.9	M ↓
-SC-4		94	152.5	M TR 1
-SC-5		95	129.0	M TR 2

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9.16.04	Sampling area: EP
Retrieval time: 16:30	Start coordinates: X: Y:
Collection method/Effort#:	
Weather:	End coordinates: X: Y:
Sampler:	
Comments:	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
EP-TR-SS-1		80	6.1	TR2
-SS-2		109	16.5	TR3
-SS-3		113	14.0	
-SS-4		118	24.3	
-SS-5		97	13.1	
-SS-6		105	15.4	
EP-TR-SP-1		105	18.6	
EP-TR-ES-1		206	79.4	TR1
-ES-2		203	75.8	
-ES-3		220	80.2	
-ES-4		274	201.5	
-ES-5		355	390.2	
-ES-6		384	530	
-ES-7		237	115.6	
-ES-8		228	110.9	
-ES-9		227	100.5	
-ES-10		278	191.1	
-ES-11		254	140.2	
-ES-12		308	260.3	
-ES-13		299	183.0	
-ES-14		239	120.1	

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9.16.04	Sampling area: EP
Retrieval time: 1630	Start coordinates: X: Y:
Collection method/Effort#:	
Weather:	End coordinates: X: Y:
Sampler:	
Comments:	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
EP-TR-ES-15		290	231.6	TR1
-ES-16		289	206.5	
-ES-17		290	222.3	
-ES-18		371	460	
-ES-19		270	204.4	
-ES-20		338	273.7	
-ES-21		203	71.7	
-ES-22		213	87.8	
-ES-23		201	74.2	
-ES-24		230	100.1	
-ES-25		218	84.8	
-ES-26		203	70.7	
-ES-27		235	112.3	
-ES-28		212	87.3	
-ES-29		205	72.3	
-ES-30		206	76.8	
-ES-31		196	65.4	
-ES-32		198	66.1	
-ES-33		203	76.1	
-ES-34		198	65.8	
-ES-35		217	89.2	

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9.16.04	Sampling area: EP
Retrieval time: 1630	Start coordinates: X: Y:
Collection method/Effort #:	
Weather:	End coordinates: X: Y:
Sampler:	
Comments:	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
EP-TR-ES-36	208	71.3		TR1
-ES-37	215	94.1		
-ES-38	224	118.2		
-ES-39	237	119.3		
-ES-40	211	86.8		
-ES-41	224	101.2		
-ES-42	228	94.1		
-ES-43	198 ~~178~~	69.8 ~~69.8~~		
-ES-44	231	116.1		
-ES-45	212	92.3		
-ES-46	213	93.3		
-ES-47	215	87.0		
-ES-48	207	74.6		
-ES-49	242	125.2		TR3
-ES-50	247	141.2		TR3

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Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9.16.04	Sampling area: EP
Retrieval time: 1630	Start coordinates: X: Y:
Collection method/Effort #:	
Weather:	End coordinates: X: Y:
Sampler:	
Comments:	

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
EP-TR- ES-51	329	338.2		TR3
ES-52	324	285.0		↓
ES-53	312	287.0		

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FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9-17-04		Sampling area:	East Passage
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: Shrimp traps			Y:
Weather: Cloudy 60°-65°		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
EP-ST-SC-6		99	153.2	male
SC-7		78.5	77.6	male
SC-8		79	63.7	male
SC-9		90	105.4	male
SC-10		79	79.1	male
SC-11		77	62.1	male
SC-12		81	77.3	male
SC-13		90	100.7	male

Windward environmental LLC

FORM B-1. FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9-17-04		Sampling area:	East Passage
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: Trawl			Y:
Weather: Cloudy 60-65		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
EP-TR-SS-7		82	6.5	
SS-8		105	12.4	
SS-9		79	6.2	
SS-10		85	6.7	
SS-11		86	6.6	
EP-TR-SP-2		92	8.9	ruptured gut
EP-TR-PP-1		93	10.5	

Windward environmental LLC

Target Species Fish and Crab Tissue Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 10-07-04	Sampling area: Blake Island
Retrieval time:	Start coordinates: X: Y:
Collection method: Trawl	
Weather: CLEAR ~60°F	End coordinates: X: Y:
Sampler: RAC	

Comments:

Specimen ID #	Length (nearest mm)	Weight (nearest 0.5 g)	Gender	Comments*
BL-TR-SS-39	114	20.7		
BL-TR-SS-40	108	17.0		
BL-TR-SS-41	130	32.1		
BL-TR-SS-42	141	26.1		prolapse cloaca
BL-TR-SS-43	117	22.0		prolapsed cloaca
BL-TR-SS-44	98	12.4		
BL-TR-SS-45	161	14.8		prolapsed cloaca
BL-TR-SS-46	127	29.2		
BL-TR-SS-47	113	18.7		
BL-TR-SS-48	104	15.7		
BL-TR-SS-49	114	19.3		
BL-TR-SS-50	113	18.7		
BL-TR-SS-51	107	17.7		prolapsed cloaca
BL-TR-SS-52	101	13.3		
BL-TR-SS-53	117	24.1		
BL-TR-SS-54	111	19.0		
BL-TR-SS-55	107	17.1		
BL-TR-SS-56	107	15.5		
BL-TR-SS-57	110	18.4		
BL-TR-SS-58	113	21		
BL-TR-SS-59	114	19.3		
BL-TR-SS-60	99	12.8		prolapsed cloaca
BL-TR-SS-61	102	15.0		
BL-TR-SS-62	101	13.8		

*Comments: External anomalies

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Target Species Fish and Crab Tissue Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #: 04-08-06-22**
Date: 10-07-04	Sampling area: EAST Passage
Retrieval time:	Start coordinates: X: Y:
Collection method: Trawl + Shrimp traps	
Weather: Clear ~60°F	End coordinates: X: Y:
Sampler: RAC	
Comments:	

SPECIMEN ID #	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	GENDER	COMMENTS*
EP-TR-SS-12	80	6.1		
EP-TR-SS-13	80	5.8		
EP-TR-SS-14	84	7.2		
EP-TR-SS-15	78	5.1		
EP-TR-SS-16	80	5.8		
EP-TR-SS-17	80	5.9		
EP-~~BIN~~ TR-SC-14	90	127	M	
EP-ST-SC-15	90	129.8	M	

*Comments: External anomalies

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1A
Retrieval Time: 09:40		**Start coordinates**	**X:** 47 33.948
Collection method/Effort #: Crab trap 1			**Y:** 122 20.926
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:10			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1A
Retrieval Time: 09:42		**Start coordinates**	**X:** 47 33.948
Collection method/Effort #: Shrimp trap 1			**Y:** 122 20.926
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:10			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		female

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1A
Retrieval Time: 09:57		**Start coordinates**	**X:** 47 33.981
Collection method/Effort #: Crab trap 2			**Y:** 122 20.939
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:45			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1A
Retrieval Time: 09:54		**Start coordinates**	**X:** 47 33.981
Collection method/Effort #: Shrimp trap 2			**Y:** 122 20.939
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:45			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	3	< 90		1 female, 2 male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1B
Retrieval Time: 10:09		**Start coordinates**	**X:** 47 33.897
Collection method/Effort #: Crab trap 3			**Y:** 122 20.822
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:22			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		female
Pycnopodia helianthoides	1			

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1B
Retrieval Time: 10:06		**Start coordinates**	**X:** 47 33.897
Collection method/Effort #: Shrimp trap 3			**Y:** 122 20.822
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:22			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1B
Retrieval Time: 10:26		**Start coordinates**	**X:** 47 33.980
Collection method/Effort #: Crab trap 4			**Y:** 122 20.833
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:28			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1B
Retrieval Time: 10:20		**Start coordinates**	**X:** 47 33.980
Collection method/Effort #: Shrimp trap 4			**Y:** 122 20.833
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:28			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1C
Retrieval Time: 10:33		**Start coordinates**	**X:** 47 33.688
Collection method/Effort #: Crab trap 5			**Y:** 122 20.804
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:50			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		female

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1C
Retrieval Time: 10:35		**Start coordinates**	**X:** 47 33.688
Collection method/Effort #: Shrimp trap 5			**Y:** 122 20.804
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:50			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	3	< 90		2 female, 1 male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1C
Retrieval Time: 10:44		**Start coordinates**	**X:** 47 33.587
Collection method/Effort #: Crab trap 6			**Y:** 122 20.756
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:53			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pycnopodia helianthoides	1			

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1C
Retrieval Time: 10:42		**Start coordinates**	**X:** 47 33.587
Collection method/Effort #: Shrimp trap 6			**Y:** 122 20.756
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 07:53			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1D
Retrieval Time: 11:21		**Start coordinates**	**X:** 47 33.761
Collection method/Effort #: Crab trap 7			**Y:** 122 20.764
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:15			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1D
Retrieval Time: 11:19		**Start coordinates**	**X:** 47 33.761
Collection method/Effort #: Shrimp trap 7			**Y:** 122 20.764
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:15			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	3	< 90		3 male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1D
Retrieval Time: 11:33		**Start coordinates**	**X:** 47 33.731
Collection method/Effort #: Crab trap 8			**Y:** 122 20.751
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:22			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1D
Retrieval Time: 11:32		**Start coordinates**	**X:** 47 33.731
Collection method/Effort #: Shrimp trap 8			**Y:** 122 20.751
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:22			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	2	< 90		1 female, 1 male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1E
Retrieval Time: 11:44		**Start coordinates**	**X:** 47 33.485
Collection method/Effort #: Crab trap 9			**Y:** 122 20.697
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:30			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		female

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1E
Retrieval Time: 11:45		**Start coordinates**	**X:** 47 33.485
Collection method/Effort #: Shrimp trap 9			**Y:** 122 20.697
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:30			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1E
Retrieval Time: 11:52		**Start coordinates**	**X:** 47 33.391
Collection method/Effort #: Crab trap 10			**Y:** 122 20.632
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:35			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1E
Retrieval Time: 11:54		**Start coordinates**	**X:** 47 33.391
Collection method/Effort #: Shrimp trap 10			**Y:** 122 20.632
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:35			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		not recorded

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1F
Retrieval Time: 12:02		**Start coordinates**	**X:** 47 33.519
Collection method/Effort #: Crab trap 11			**Y:** 122 20.643
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:40			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
none				

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1F
Retrieval Time: 12:05		**Start coordinates**	**X:** 47 33.519
Collection method/Effort #: Shrimp trap 11			**Y:** 122 20.643
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:40			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	4	< 90		4 male

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1F
Retrieval Time: 12:20		**Start coordinates**	**X:** 47 33.422
Collection method/Effort #: Crab trap 12			**Y:** 122 20.534
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:43			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	1	< 90		female

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	**LDW RI fish and crab chemistry**	**Project #:**	**04-08-06-22**
Date: 08.30.2004		**Sampling area:**	Sub area 1F
Retrieval Time: 12:22		**Start coordinates**	**X:** 47 33.422
Collection method/Effort #: Shrimp trap 12			**Y:** 122 20.534
Weather: overcast, cool (~60F), no wind		**End coordinates**	**X:**
Sampler: RAC, DMP, JMF			**Y:**
Comments: Deploy time: 08:43			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Cancer gracilis	11	< 90		not recorded

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1010		Start coordinates	X: 47 32.671
Collection method/Effort #: Crab trap 13			Y: 122 20.264
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0758			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	5	<90	–	4 Female, 1 Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1012		Start coordinates	X: 47 32.671
Collection method/Effort #: Shrimp Trap 13			Y: 122 20.264
Weather: Clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0758			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Shiner Surfperch	1	<80	–	

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1021		Start coordinates	X: 47 32.767
Collection method/Effort #: Crab trap 14			Y: 122 20.316
Weather: clear, sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0801			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2A
Retrieval Time: 1623		Start coordinates	X: 4732,767
Collection method/Effort #: Shrimp trap 14			Y: 122 20,316
Weather: Clear, Sunny, warm		End coordinates	X:
Sampler: RAE			Y:
Comments: Deployment Time 0801			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1030		Start coordinates	X: 47 32.835
Collection method/Effort #: Crab Trap 15			Y: 122 20.281
Weather: Clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0808			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Sunflower Seastar	1	-	-	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1037		Start coordinates	X: 47 32.835
Collection method/Effort #: Shrimp trap 15			Y: 122 20.281
Weather: clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0808			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90		1 Male 1 Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1040		Start coordinates	X: 47 32.770
Collection method/Effort #: Crab Trap 16			Y: 122 20.215
Weather: Clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0813			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	-	1 Male 1 Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2B
Retrieval Time: 1042		Start coordinates	X: 47 32.770
Collection method/Effort #: Shrimp trap 1b			Y: 122 20.215
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0813			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1050		Start coordinates	X: 47 32.575
Collection method/Effort #: Crab trap 17			Y: 122 20.159
Weather: clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0820			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	1 Female 1 Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1048		Start coordinates	X: 47 32.575
Collection method/Effort #: Shrimp trap 17			Y: 122 20.159
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0820			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	9	590	–	No sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1059		Start coordinates	X: 47 32,479
Collection method/Effort #: Crab trap 18			Y: 122 20,024
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0825			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2C
Retrieval Time: 1101		Start coordinates	X: 47 32.479
Collection method/Effort #: Shrimp trap 18			Y: 122 20.024
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAE			Y: –
Comments: Deployment Time 0825			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1221		Start coordinates	X: 47 32.538
Collection method/Effort #: Crab trap 19			Y: 122 19.965
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0840			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1224		Start coordinates	X: 47 32.538
Collection method/Effort #: Shrimp trap 19			Y: 122 19.965
Weather: clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0840			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	9	<90	-	No Sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1234		Start coordinates	X: 47 32.602
Collection method/Effort #: Crab trap 20			Y: 122 20.139
Weather: Clear, Sunny, Warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0845			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2D
Retrieval Time: 1235		Start coordinates	X: 47 32.602
Collection method/Effort #: Shrimp trap 20			Y: 122 20.139
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0845			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	No Sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1243		Start coordinates	X: 47 32.370
Collection method/Effort #: Crab trap 21			Y: 122 19.858
Weather: clear, sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0850			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	No Sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1245		Start coordinates	X: 47 32.370
Collection method/Effort #: Shrimp Trap 21			Y: 122 19.858
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0850			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1252		Start coordinates	X: 47 32.397
Collection method/Effort #: Crab trap 22			Y: 122 19.907
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0853			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2E
Retrieval Time: 1253		Start coordinates	X: 47 32.397
Collection method/Effort #: Shrimp trap 22			Y: 122 19.907
Weather: clear, sunny, warm		End coordinates	X: =
Sampler: RAC			Y:
Comments: Deployment Time 0853			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	No Sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1300		Start coordinates	X: 47 32.391
Collection method/Effort #: Crab Trap 23			Y: 122 19.823
Weather: Clear / Sunny / warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0856			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 Males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1304		Start coordinates	X: 47 32.391
Collection method/Effort #: Shrimp Trap 23			Y: 122 19.823
Weather: Clear, Sunny, Warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0856			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	<90	-	No Sex info.
Shiner Surfperch	1	<80	-	

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1307		Start coordinates	X: 47 32.354
Collection method/Effort #: Crab Trap 24			Y: 122 19.741
Weather: Clear, Sunny, warm		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0902			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 08-31-04		Sampling area:	2F
Retrieval Time: 1309		Start coordinates	X: 47 32.354
Collection method/Effort #: Shrimp trap 24			Y: 122 19.741
Weather: Clear, Sunny, warm		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0902			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	No sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1435		Start coordinates	X: 47 33.970
Collection method/Effort #: Crab Trap 25			Y: 122 20.932
Weather: clear, sunny, partly cloudy, wind 5-10mph		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1145			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1437		Start coordinates	X: 47 33.970
Collection method/Effort #: Shrimp Trap 25			Y: 122 20.932
Weather: Clear, Sunny, Patchy clouds, wind 5-10mph		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1145			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1448		Start coordinates	X: 47 33.780
Collection method/Effort #: Crab trap 26			Y: 122 20.856
Weather: clear, Sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1150			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Male

Wind Ward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1A
Retrieval Time: 1448		Start coordinates	X: 47 33.780
Collection method/Effort #: Shrimp trap 26			Y: 122 20.856
Weather: clear, sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1150			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1B
Retrieval Time: 1458		Start coordinates	X: 47 33.853
Collection method/Effort #: Crab trap 27			Y: 122 20.808
Weather: clear, Sunny, patchy clouds, wind 5-10 mph		End coordinates	X: =
Sampler: RAC			Y: —
Comments: Deployment Time 1159			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	# 1	<90	—	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1B
Retrieval Time: 1500		Start coordinates	X: 47 33.853
Collection method/Effort #: Shrimp trap 27			Y: 122 20.808
Weather: clear, sunny, patchy clouds, wind 5-10mph		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment Time 1159			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	-	2 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1B
Retrieval Time: 1508		Start coordinates	X: 47 33.991
Collection method/Effort #: Crab trap 28			Y: 122 20.865
Weather: clear, sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1207			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	113
Retrieval Time: 1511		Start coordinates	X: 4733.991
Collection method/Effort #: Shrimp trap 28			Y: 122 20.865
Weather: clear, sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 1207			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1C
Retrieval Time: 1526		Start coordinates	X: 47 33.717
Collection method/Effort #: Crab Trap 29			Y: 122 20.815
Weather: clear, Sunny, patchy clouds, wind 5-10mph		End coordinates	X: =
Sampler: RAC			Y:
Comments: Deployment Time 1215			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1C
Retrieval Time: 1528		Start coordinates	X: 47 33.717
Collection method/Effort #: Shrimp trap 29			Y: 122 26.815
Weather: clear, Sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1215			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	1 male 1 female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1C
Retrieval Time: 1535		Start coordinates	X: 47 33.655
Collection method/Effort #: Crab Trap 30			Y: 122 20.785
Weather: clear, Sunny / Patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1220			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	K
Retrieval Time: 1540		Start coordinates	X: 47 33.655
Collection method/Effort #: Shrimp trap 30			Y: 122 20.785
Weather: clear, sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1220			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1D
Retrieval Time: 1617		Start coordinates	X: 47 33.741
Collection method/Effort #: Crab trap 31			Y: 122 20.750
Weather: clear, sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1250			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1D
Retrieval Time: 1618		Start coordinates	X: 4733.741
Collection method/Effort #: Shrimp trap 31			Y: 122 20.750
Weather: clear, Sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1250			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	6	<90	–	4 male 2 Female
~~Northern~~ Sculpin Prickly MGL 12/2/04	1	–	–	

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1D
Retrieval Time: 1627		Start coordinates	X: 47 33.626
Collection method/Effort #: Crab trap 32			Y: 122 20.700
Weather: cloudy, sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1255			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	1 Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1D
Retrieval Time: 1626		Start coordinates	X: 47 33.626
Collection method/Effort #: Shrimp trap 32			Y: 122 20.700
Weather: clear, sunny, partly cloudy, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1255			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	1 Male 1 Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1E
Retrieval Time: 1635		Start coordinates	X: 47 33.535
Collection method/Effort #: Crab trap 33			Y: 122 20.722
Weather: clear, sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1300			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	IE
Retrieval Time:		Start coordinates	X: 47 33 .535
Collection method/Effort #: Shrimp trap 33			Y: 122 20 .722
Weather: clear, sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1300			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	–	3 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1E
Retrieval Time: 1639		Start coordinates	X: 47 33.456
Collection method/Effort #: Crab Trap 34			Y: 122 20.673
Weather: clear, sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1307			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1E
Retrieval Time: 1640		Start coordinates	X: 47 33.456
Collection method/Effort #: Shrimp trap 34			Y: 122 20.673
Weather: Clear, sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 1307			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	–	2 males 1 female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1F
Retrieval Time: 1645		Start coordinates	X: 47 33.470
Collection method/Effort #: Crab trap 35			Y: 122 20.616
Weather: clear sunny, patchy clouds, wind 5-10mph		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1312			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	<90	–	2 males 2 females

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1F
Retrieval Time: 1648		Start coordinates	X: 4733.470
Collection method/Effort #: Shrimp Trap 35			Y: 122 20.616
Weather: clear, sunny, patchy clouds wind 5 knots		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1312			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	–	2 males 1 Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1F
Retrieval Time: 1653		Start coordinates	X: 47 33.415
Collection method/Effort #: Crab trap 36			Y: 122 20.446
Weather: clear, Sunny, Patchy clouds, wind 5-10mph		End coordinates	X: =
Sampler: RAE			Y: =
Comments: Deployment Time 1315			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-01-04		Sampling area:	1F
Retrieval Time: 1654		Start coordinates	X: 4733.415
Collection method/Effort #: Shrimp trap 36			Y: 122 20.446
Weather: Clear, Sunny, patchy clouds, wind 5-10 mph		End coordinates	X: –
Sampler: RAC			Y:
Comments: Deployment Time 1315			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1146		Start coordinates	X: 47 32.739
Collection method/Effort #: Crab trap 37			Y: 122 20.300
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0850			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1147		Start coordinates	X: 47 32.739
Collection method/Effort #: Shrimp trap 37			Y: 122 20.300
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0850			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	<90	–	3 males 1 Female
Shiner Surfperch	1	<80	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1133		Start coordinates	X: 47 32.645
Collection method/Effort #: Crab trap 38			Y: 122 20.251
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0856			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	5	<90	–	3 males 2 females

Wind Ward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2A
Retrieval Time: 1134		Start coordinates	X: 47 32.645
Collection method/Effort #: Shrimp trap 38			Y: 122 20.251
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0856			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male
Shiner Surfperch	1	<80	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1158		Start coordinates	X: 47 32.758
Collection method/Effort #: Crab trap 39			Y: 122 20.203
Weather: Sun, clouds		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0903			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1159		Start coordinates	X: 47 32.758
Collection method/Effort #: Shrimp trap 39			Y: 122 20.203
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0903			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1205		Start coordinates	X: 47 32.799
Collection method/Effort #: Crab trap 40			Y: 122 20.257
Weather: Sun, clouds		End coordinates	X: ~~47 32.~~
Sampler: RAC			Y: —
Comments: Deployment Time 0907			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2B
Retrieval Time: 1206		Start coordinates	X: 47 32.799
Collection method/Effort #: Shrimp trap 40			Y: 122 20.257
Weather: Sun clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0907			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1218		Start coordinates	X: 47 32.595
Collection method/Effort #: Crab trap 41			Y: 122 20.192
Weather: Sun / clouds		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment time 0913			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 females

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	~~EE~~ 2C
Retrieval Time: 1219		Start coordinates	X: 47 32.595
Collection method/Effort #: Shrimp trap 41			Y: 122 20.192
Weather: Sun, clouds		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0913			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	~~2~~ 1	<90	–	male

WindWard environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2C
Retrieval Time: 1228		Start coordinates	X: 47 32,547
Collection method/Effort #: Crab trap 42			Y: 122 20, 131
Weather: clouds, sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0920			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date:	09-02-04	Sampling area:	2C
Retrieval Time:	1230	Start coordinates	X: 47 32.547
Collection method/Effort #:	Shrimp trap 42		Y: 122 20.131
Weather:	clouds, sun	End coordinates	X: -
Sampler:	RAC		Y: -
Comments:	Deployment Time 0920		

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	<90	-	2 males 2 females

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1330		Start coordinates	X: 47 32.622
Collection method/Effort #: Crab trap 43			Y: 122 20.159
Weather: Clouds, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0937			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry		
Date: 09-02-04		Project #:	04-08-06-22
Retrieval Time: 1332		Sampling area:	2D
Collection method/Effort #: Shrimp trap 43		Start coordinates	X: 47 32.622
Weather: Clouds, Sun			Y: ~~122~~ 122 20.159
Sampler: RAC		End coordinates	X: –
Comments: Deployment Time 0937			Y: –

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	590	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1338		Start coordinates	X: 47 32.530
Collection method/Effort #: Crab trap 44			Y: 122 19.998
Weather: Clouds 15°n		End coordinates	X: –
Sampler: RAC			Y:
Comments: Deployment Time 0943			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2D
Retrieval Time: 1340		Start coordinates	X: 47 32.530
Collection method/Effort #: Shrimp trap 44			Y: 122 19.998
Weather: Clouds, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0943			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	6	<90	-	3 males 3 females

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1348		Start coordinates	X: 47 32.409
Collection method/Effort #: Crab trap 45			Y: 122 19.930
Weather: Clouds, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0949			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1350		Start coordinates	X: 47 32,409
Collection method/Effort #: Shrimp Trap 45			Y: 122 19,930
Weather: Clouds, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0949			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	–	2 males 1 female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1358		Start coordinates	X: 47 32.305
Collection method/Effort #: Crab trap 46			Y: 122 19.783
Weather: clouds, sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0956			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
1 Seastar	1	–	–	–
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2E
Retrieval Time: 1402		Start coordinates	X: 47 32.305
Collection method/Effort #: Shrimp trap 46			Y: 122 19.783
Weather: Clouds, Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0956			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	590	–	4 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1411		Start coordinates	X: 47 32,371
Collection method/Effort #: Crab trap 49			Y: 122 19,803
Weather: clouds / sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1002			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1411		Start coordinates	X: 47 32.371
Collection method/Effort #: Shrimp trap 47			Y: 122 19.803
Weather: Clouds/Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1002			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1419		Start coordinates	X: 47 32.411
Collection method/Effort #: Crab trap 48			Y: 122 19.899
Weather: Clouds, Sun		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 1008			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-02-04		Sampling area:	2F
Retrieval Time: 1422		Start coordinates	X: 47 32.441
Collection method/Effort #: Shrimp trap 48			Y: 122 19.899
Weather: Clouds / Sun		End coordinates	X:
Sampler: RAC			Y: =
Comments: Deployment Time 1008			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1117		Start coordinates	X: 47 31.956
Collection method/Effort #: crab trap 49			Y: 122 19.152
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0800			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1119		Start coordinates	X: 47 31.956
Collection method/Effort #: Shrimp trap 49			Y: 122 19.152
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0800			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Saddleback gunnel	1	–	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1124		Start coordinates	X: 47 31.893
Collection method/Effort #: Crab trap 50			Y: 122 19.042
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0807			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3B
Retrieval Time: 1124		Start coordinates	X: 47 31.893
Collection method/Effort #: Shrimp trap 50			Y: 122 19.042
Weather: Overcast + Sun		End coordinates	X: =
Sampler: BAC			Y: =
Comments: Deployment Time 0807			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE	—	—	—	—

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1132		Start coordinates	X: 47 31.796
Collection method/Effort #: crab trap 51			Y: 122 18.891
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0812			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1132		Start coordinates	X: 47 31.796
Collection method/Effort #: Shrimp trap 51			Y: 122 18.891
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0812			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1139		Start coordinates	X: 47 31.747
Collection method/Effort #: Crab trap 52			Y: 122 18.797
Weather: overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0814			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3D
Retrieval Time: 1143		Start coordinates	X: 47 31.747
Collection method/Effort #: Shrimp trap 52			Y: 122 18.797
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0814			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1150		Start coordinates	X: 47 31.707
Collection method/Effort #: Crab trap 53			Y: 122 18.722
Weather: Overcast + sun		End coordinates	X: =
Sampler: RAC			Y:
Comments: Deployment Time 0818			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1153		Start coordinates	X: 47 31.707
Collection method/Effort #: Shrimp trap 53			Y: 122 18.722
Weather: overcast + sun		End coordinates	X: –
Sampler: RK			Y: –
Comments: Deployment Time 0818			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 males
Pacific staghorn sculpin	3	>200 x1 150-200 x1 100-150 x1	–	

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1156		Start coordinates	X: 47 31.627
Collection method/Effort #: Crab trap 54			Y: 122 18.593
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0821			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	1 female 1 male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3F
Retrieval Time: 1157		Start coordinates	X: 47 31.627
Collection method/Effort #: Shrimp trap 54			Y: 122 18.593
Weather: overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0821			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Staghorn Sculpin Pacific	2	100-150 X1 150-200 X1	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1222		Start coordinates	X: 47 31.631
Collection method/Effort #: crab trap 55			Y: 122 18.652
Weather: overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0853			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1223		Start coordinates	X: 47 31.631
Collection method/Effort #: Shrimp trap 55			Y: 122 18.652
Weather: overcast + sun		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment time 0853			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 males
Pacific Staghorn Sculpin	4	>200 x4	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1228		Start coordinates	X: 47 31.699
Collection method/Effort #: Crab trap 56			Y: 122 18.762
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0859			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3E
Retrieval Time: 1229		Start coordinates	X: 47 31.699
Collection method/Effort #: Shrimp trap 56			Y: 122 18.762
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0859			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1231		Start coordinates	X: 47 31.728
Collection method/Effort #: Crab trap 57			Y: 122 18.810
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0903			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1233		Start coordinates	X: 47 31.728
Collection method/Effort #: Shrimp trap 57			Y: 122 18.810
Weather: Overcast 15°C		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0903			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1238		Start coordinates	X: 47 31.760
Collection method/Effort #: Crab trap 58			Y: 122 18.886
Weather: overcast + sun		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment Time 0907			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3C
Retrieval Time: 1236		Start coordinates	X: 4731.760
Collection method/Effort #: shrimp trap 58			Y: 122 18.886
Weather: overcast + Sun		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment Time 0907			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1243		Start coordinates	X: 47 31,856
Collection method/Effort #: Crab trap 59			Y: 122 19,053
Weather: Overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0911			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1244		Start coordinates	X: 47 31.856
Collection method/Effort #: Shrimp trap 59			Y: 122 19.053
Weather: overcast + sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0911			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1247		Start coordinates	X: 47 31.917
Collection method/Effort #: crab trap 60			Y: 122 19.159
Weather: overcast + Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0916			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-03-04		Sampling area:	3A
Retrieval Time: 1248		Start coordinates	X: 47 31, 917
Collection method/Effort #: Shrimp trap 60			Y: 122 19,159
Weather: Overcast +Sun		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0916			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	4	<90	-	4 males.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1255		Start coordinates	X: 47 31.073
Collection method/Effort #: Crab Trap 61			Y: 122 18.388
Weather: Sun, clear, no wind		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0923			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	No sex info.

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1255		Start coordinates	X: 47 31.073
Collection method/Effort #: Shrimp trap 61			Y: 122 18.388
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0923			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	9	100-150 x9	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1307		Start coordinates	X: 47 30.999
Collection method/Effort #: Crab trap 62			Y: 122 18.368
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0927			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4A
Retrieval Time: 1307		Start coordinates	X: 47 30.999
Collection method/Effort #: Shrimp trap 62			Y: 122 18.368
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0927			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1310		Start coordinates	X: 47 31,015
Collection method/Effort #: Crab trap 63			Y: 122 18,312
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0930			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1311		Start coordinates	X: 47 31.015
Collection method/Effort #: Shrimp trap 63			Y: 122 18.312
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0930			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1316		Start coordinates	X: 47 31.106
Collection method/Effort #: Crab trap 64			Y: 122 18.331
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0933			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	590	–	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4B
Retrieval Time: 1317		Start coordinates	X: 47 31.106
Collection method/Effort #: Shrimp trap 64			Y: 122 18.331
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment time 0933			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male
Pacific staghorn Sculpin	2	200 x1 120 x1	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1325		Start coordinates	X: 47 30.814
Collection method/Effort #: Crab trap 65			Y: 122 18.293
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0939			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1325		Start coordinates	X: 47 30.814
Collection method/Effort #: Shrimp trap 65			Y: 122 18.293
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0939			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1330		Start coordinates	X: 47 30.757
Collection method/Effort #: Crab trap ~~65~~ 66			Y: 122 18.262
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0943			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4C
Retrieval Time: 1331		Start coordinates	X: 47 30.757
Collection method/Effort #: Shrimp trap ~~65~~ 66			Y: 122 18.262
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0943			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1334		Start coordinates	X: 47 30.813
Collection method/Effort #: Crab trap 67			Y: 122 18.243
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1023			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1335		Start coordinates	X: 47 30.813
Collection method/Effort #: Shrimp trap 67			Y: 122 18.243
Weather: Sun, clear / no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1023			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
~~Northern~~ Prickly Sculpin MLL 12/2/04	1	50-100	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1339		Start coordinates	X: 47 38.764
Collection method/Effort #: Crab trap 68			Y: 122 18.171
Weather: Sun, clear, no wind		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1025			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4D
Retrieval Time: 1340		Start coordinates	X: 47 30.764
Collection method/Effort #: Shrimp trap 68			Y: 122 18.171
Weather: Sun, clear, no wind		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 1025			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	100-150	—	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1345		Start coordinates	X: 47 30,730
Collection method/Effort #: Crab trap 69			Y: 122 17,972
Weather: Sunny clear, no wind		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment Time 1029			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1345		Start coordinates	X: 47 30.730
Collection method/Effort #: Shrimp trap 69			Y: 122 17.972
Weather: Sun, clear, no wind		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1029			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1351		Start coordinates	X: 47 30.714
Collection method/Effort #: Crab trap 70			Y: 122 17.910
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1032			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1352		Start coordinates	X: 47 30.714
Collection method/Effort #: Shrimp trap 70			Y: 122 17.910
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1032			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1356		Start coordinates	X: 47 30.691
Collection method/Effort #: Crab Trap 71			Y: 122 17.856
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1034			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1357		Start coordinates	X: 47 30.691
Collection method/Effort #: shrimp trap 71			Y: 122 17.856
Weather: Sun, clear, no wind		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1034			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1402		Start coordinates	X: 47 30.649
Collection method/Effort #: Crab trap 72			Y: 122 17.761
Weather: Sun, clear, no wind		End coordinates	X: -
Sampler: RAE			Y: -
Comments: Deployment Time 1038			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-07-04		Sampling area:	4E
Retrieval Time: 1403		Start coordinates	X: 47 30.649
Collection method/Effort #: Shrimp trap 72			Y: 122 17.761
Weather: Sun, clear, no wind		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1038			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.092
Collection method/Effort #: Crab trap 73			Y: 122 18.397
Weather: Sunny		End coordinates	X: —
Sampler: RAC			Y: —
Comments: Deployment Time 0807			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47. 31.092
Collection method/Effort #: Shrimp Trap 73			Y: 122 18.397
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0807			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	male
Pacific Staghorn Sculpin	4	-	-	-
Shiner Surfperch	1	<80	-	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09. 08.04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 4731.043
Collection method/Effort #: Crab Trap 74			Y: 122 18.373
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0813			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4A
Retrieval Time: 1050		Start coordinates	X: 47 31.043
Collection method/Effort #: Shrimp Trap 74			Y: 122 18.373
Weather: Sunny		End coordinates	X: -
Sampler: RAE			Y: -
Comments: Deployment Time 0813			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	2	100-150 x1 50-100 x1	—	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4B
Retrieval Time: 1105		Start coordinates	X: 47 31.112
Collection method/Effort #: Crab Trap 75			Y: 122 18.302
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0817			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4B
Retrieval Time: 1107		Start coordinates	X: 47 31.112
Collection method/Effort #: Shrimp Trap 75			Y: 122 18.302
Weather: Sunny		End coordinates	X: -
Sampler: RAc			Y: -
Comments: Deployment Time 0817			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	~~100~~ 3	100-150 x1 50-100 x2	-	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4B
Retrieval Time: 1110		Start coordinates	X: 47 31.104
Collection method/Effort #: Crab Trap 76			Y: 122 18.348
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0822			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4B
Retrieval Time: 1112		Start coordinates	X: 47 31.104
Collection method/Effort #: Shrimp Trap 76			Y: 122 18.348
Weather: Sunny		End coordinates	X: =
Sampler: RAC			Y: =
Comments: Deployment Time 0822			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	3	150-200 x1 50-100 x2	-	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4C
Retrieval Time: 1118		Start coordinates	X: 47 30.832
Collection method/Effort #: Crab Trap 77			Y: 122 18.302
Weather: Sunny		End coordinates	X:
Sampler: BAC			Y:
Comments: Deployment Time 0831			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4C
Retrieval Time: 1119		Start coordinates	X: 47 30.832
Collection method/Effort #: Shrimp Trap 77			Y: 122 18.302
Weather: Sunny		End coordinates	X:
Sampler: EAC			Y:
Comments: Deployment Time 0831			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	3	50-100 x3	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4C
Retrieval Time: 1127		Start coordinates	X: 47 30.855
Collection method/Effort #: Crab Trap 78			Y: 122 18.315
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0835			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4C
Retrieval Time: 1123		Start coordinates	X: 47 30.855
Collection method/Effort #: Shrimp Trap 78			Y: 122 18.315
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0835			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	5	50-100 x4 100-150 x1	—	—

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4D
Retrieval Time: 1133		Start coordinates	X: 47 30.792
Collection method/Effort #: Crab Trap 79			Y: 122 18.224
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0909			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4D
Retrieval Time: 1131		Start coordinates	X: 47 30.792
Collection method/Effort #: Shrimp Trap 79			Y: 122 18.224
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 0909			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	50-100	-	-

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4D
Retrieval Time: 1138		Start coordinates	X: 47 30.835
Collection method/Effort #: Crab Trap 80			Y: 122 18.250
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0912			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4D
Retrieval Time: 1138		Start coordinates	X: 47 30.835
Collection method/Effort #: Shrimp Trap 80			Y: 122 18.250
Weather: Sunny		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 0912			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	150-200	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1148		Start coordinates	X: 47 30.735
Collection method/Effort #: Crab Trap 81			Y: 122 17.975
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0919			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1151		Start coordinates	X: 47 30.735
Collection method/Effort #: Shrimp Trap 81			Y: 122 17.975
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0919			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1155		Start coordinates	X: 47 30.724
Collection method/Effort #: Crab Trap 82			Y: 122 17.940
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0920			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1156		Start coordinates	X: 47 30.724
Collection method/Effort #: Shrimp Trap 82			Y: 122 17.940
Weather: Sunny		End coordinates	X:
Sampler: R AC			Y:
Comments: Deployment Time 0920			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1200		Start coordinates	X: 47 30.711
Collection method/Effort #: Crab Trap 83			Y: 122 17.898
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0924			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1201		Start coordinates	X: 47 30.711
Collection method/Effort #: Shrimp Trap 83			Y: 12217.898
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0924			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.08.04		Sampling area:	4E
Retrieval Time: 1207		Start coordinates	X: 47 30.691
Collection method/Effort #: Crab Trap 84			Y: 122 17.863
Weather: Sunny		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 0927			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09-08-04		Sampling area:	4E
Retrieval Time: 1207		Start coordinates	X: 47 30.691
Collection method/Effort #: Shrimp trap 84			Y: 122 17.863
Weather: Sunny		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment time 0927			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3A
Retrieval Time: 1309		Start coordinates	X: 47 31.972
Collection method/Effort #: Crab Trap 85			Y: 122 19.252
Weather: Overcast, drizzle		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1035			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	-	2 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3A
Retrieval Time: 1309		Start coordinates	X: 47 31.972
Collection method/Effort #: Shrimp Trap 85			Y: 122 19.252
Weather: Overcast, drizzle		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1035			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3A
Retrieval Time: 1318		Start coordinates	X: 47 31.867
Collection method/Effort #: Crab Trap 86			Y: 122 19.071
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1041			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3A
Retrieval Time: 1319		Start coordinates	X: 47 31.867
Collection method/Effort #: Shrimp Trap 86			Y: 122 19.071
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1041			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3B
Retrieval Time: 1323		Start coordinates	X: 47 31.919
Collection method/Effort #: Crab Trap 87			Y: 122 19.086
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1047			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3B
Retrieval Time: 1324		Start coordinates	X: 47 31.919
Collection method/Effort #: Shrimp Trap 87			Y: 122 19.086
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1047			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3B
Retrieval Time: 1330		Start coordinates	X: 47 31.991
Collection method/Effort #: Crab Trap 88			Y: 122 19.212
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1051			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3B
Retrieval Time: 1330		Start coordinates	X: 47 31.991
Collection method/Effort #: Shrimp Trap 88			Y: 122 19.212
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1051			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	–	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3C
Retrieval Time: 1337		Start coordinates	X: 47 31.787
Collection method/Effort #: Crab Trap 89			Y: 122 18.926
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1057			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3C
Retrieval Time: 1339		Start coordinates	X: 47 31.787
Collection method/Effort #: Shrimp Trap #89			Y: 122 18.926
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1057			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3C
Retrieval Time: 1346		Start coordinates	X: 47 31.723
Collection method/Effort #: Crab Trap 90			Y: 122 18.813
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1100			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3C
Retrieval Time: 1343		Start coordinates	X: 47 31.723
Collection method/Effort #: Shrimp Trap 90			Y: 122 18.813
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: PAC			Y: –
Comments: Deployment Time 1100			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	590	–	Male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3D
Retrieval Time: 1352		Start coordinates	X: 47 31.832
Collection method/Effort #: Crab Trap 91			Y: 122 18.941
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAE			Y:
Comments: Deployment Time 1105			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3D
Retrieval Time: 1354		Start coordinates	X: 47 31.832
Collection method/Effort #: Shrimp Trap 91			Y: 122 18.941
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1105			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	2	100-150 x 1 50-100 x 1	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3D
Retrieval Time: 1402		Start coordinates	X: 47 31.743
Collection method/Effort #: Crab Trap 92			Y: 122 18.776
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAE			Y:
Comments: Deployment Time 1110			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3D
Retrieval Time: 1403		Start coordinates	X: 47 31.743
Collection method/Effort #: Shrimp Trap 92			Y: 122 18.776
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1110			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	2	<100 x1 100-150 x1	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3E
Retrieval Time: 1410		Start coordinates	X: 4731.743
Collection method/Effort #: Crab Trap 93			Y: 122 18.741
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1114			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3E
Retrieval Time: 1412		Start coordinates	X: 47 31.679
Collection method/Effort #: Shrimp Trap 93			Y: 122 18.741
Weather: Overcast, drizzle		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1114			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	8	—	—	—

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3E
Retrieval Time: 1416		Start coordinates	X: 47 31.645
Collection method/Effort #: Crab Trap 94			Y: 122 18.700
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1120			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3E
Retrieval Time: 1418		Start coordinates	X: 47 31.645
Collection method/Effort #: Shrimp Trap 94			Y: 122 18.700
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1120			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	~~4~~ 3	<90	–	3 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3F
Retrieval Time: 1423		Start coordinates	X: 47 31.676
Collection method/Effort #: Crab Trap 95			Y: 122 18.673
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1125			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3F
Retrieval Time: 1424		Start coordinates	X: 47 31.676
Collection method/Effort #: Shrimp Trap 95			Y: 122 18.673
Weather: Overcast, drizzle		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1125			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	100-150	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3F
Retrieval Time: 1432		Start coordinates	X: 47 31.586
Collection method/Effort #: Crab Trap 96			Y: 122 18.56
Weather: Overcast, drizzle		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1128			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.09.04		Sampling area:	3F
Retrieval Time: 1429		Start coordinates	X: 47 31.586
Collection method/Effort #: Shrimp Trap 96			Y: 122 18.563
Weather: Overast, drizzle		End coordinates	X: –
Sampler: RAE			Y: –
Comments: Deployment Time 1128			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	–	3 males
Pacific Staghorn Sculpin	2	100-150	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09. 10. 04		Sampling area:	3A
Retrieval Time: 1510		Start coordinates	X: 47 31.960
Collection method/Effort #: Crab Trap 97			Y: 122 19.217
Weather: Sunny, hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1235			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3A
Retrieval Time: 1510		Start coordinates	X: 47 31.960
Collection method/Effort #: Shrimp Trap 97			Y: 122 19.217
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1235			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	2	<90	–	2 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3A
Retrieval Time: 1516		Start coordinates	X: 47 31.906
Collection method/Effort #: Crab Trap 98			Y: 122 19.123
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1239			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3A
Retrieval Time: 1519		Start coordinates	X: 47 31.906
Collection method/Effort #: Shrimp Trap 98			Y: 122 19.123
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1239			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	-	Female

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3B
Retrieval Time: 1521		Start coordinates	X: 47 31.934
Collection method/Effort #: Crab Trap 99			Y: 122 19.111
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1244			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3B
Retrieval Time: 1521		Start coordinates	X: 47 31.934
Collection method/Effort #: Shrimp Trap 99			Y: 122 19.111
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1244			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3B
Retrieval Time: 1524		Start coordinates	X: 47 31.941
Collection method/Effort #: Crab Trap 100			Y: 122 19.125
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1248			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3B
Retrieval Time: 1524		Start coordinates	X: 47 31.941
Collection method/Effort #: Shrimp Trap 100			Y: 122 19.125
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1248			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	200-250	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1531		Start coordinates	X: 47 31.842
Collection method/Effort #: Crab Trap 101			Y: 122 18.955
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1254			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1531		Start coordinates	X: 47 31.842
Collection method/Effort #: Shrimp Trap 101			Y: 122 18.955
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1254			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1536		Start coordinates	X: 47 31.735
Collection method/Effort #: crab Trap 102			Y: 122 18.777
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1300			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1536		Start coordinates	X: 47 31.735
Collection method/Effort #: Shrimp Trap 102			Y: 122 18.777
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1300			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1540		Start coordinates	X: 47 31.747
Collection method/Effort #: Crab Trap 103			Y: 122 18.794
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1304			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3D
Retrieval Time: 1540		Start coordinates	X: 47 31.747
Collection method/Effort #: Shrimp Trap 103			Y: 122 18.794
Weather: Sunny, hazy		End coordinates	X: -
Sampler: RAC			Y: -
Comments: Deployment Time 1304			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	3	<90	-	3 males

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3E
Retrieval Time: 1546		Start coordinates	X: 47 31.657
Collection method/Effort #: Crab Trap 104			Y: 122 18.695
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1308			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3E
Retrieval Time: 1546		Start coordinates	X: 47 31.657
Collection method/Effort #: Shrimp Trap 104			Y: 122 18.695
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1308			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3E
Retrieval Time: 1550		Start coordinates	X: 47 31.612
Collection method/Effort #: Crab Trap 105			Y: 122 18.626
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1313			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3E
Retrieval Time: 1554		Start coordinates	X: 47 31.612
Collection method/Effort #: Shrimp Trap 105			Y: 122 18.626
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1313			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1558		Start coordinates	X: 47 31.642
Collection method/Effort #: Crab Trap 106			Y: 122 18.623
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1316			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1558		Start coordinates	X: 47 31.642
Collection method/Effort #: Shrimp Trap 106			Y: 122 18.623
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1316			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	1	100-150	–	–

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1602		Start coordinates	X: 47 31.612
Collection method/Effort #: Crab Trap 107			Y: 122 18.572
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1320			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	590	–	male

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FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1604		Start coordinates	X: 47 31.612
Collection method/Effort #: Shrimp Trap 107			Y: 122 18.572
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1320			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C. gracilis	1	<90	–	male

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1610		Start coordinates	X: 47 31.685
Collection method/Effort #: Crab Trap 108			Y: 122 18.683
Weather: Sunny, hazy		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1325			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
NONE				

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09.10.04		Sampling area:	3F
Retrieval Time: 1610		Start coordinates	X: 47 31.685
Collection method/Effort #: Shrimp Trap 108			Y: 122 18.683
Weather: Sunny, hazy		End coordinates	X: –
Sampler: RAC			Y: –
Comments: Deployment Time 1325			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Pacific Staghorn Sculpin	3	–	–	–

MGL 8/2/04

FM

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** T1-B
Retrieval time: 11:26	(tow) **Start coordinates:** 11:21 — X: 47 33.933 Y: 122 20.831 — 43' deep
Collection method/Effort#: TR001	
Weather: overcast, cool	**End coordinates:** 11:26 — X: 47 33.742 Y: 122 20.758 — 30' deep
Sampler: RAC, MGL	
Comments: 1-1B	Start set: 11:20 — X: 47 33.978 Y: 122 20.836 — 250' wire out
effort# area & sub area	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
longfin smelt	1	139 mm		
roughback sculpin	3	10-15 cm		
neudabranks (striped)	16			
tomcods	10	8.5-10 cm		
purple crab	8	3.5cm-8 cm		
shrimp	~~8~~ 3-5	4½ cm		
decorator crabs	7			
rock sole	10	15.5 - 30cm		

✓ FM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: T1-A
Retrieval time: 12:08	Start coordinates: 12:02 X: 47 33.959 Y: 122 20.937 20' deep
Collection method/Effort#: TR002	
Weather: overcast, cool	End coordinates: 12:08 X: 47 33.863 Y: 122 20.881 (hang-up)
Sampler: RAC, MGL	
Comments: 2-1A	start set: 12:01 x: 47 33.983 x: 122 20.944 23' deep wire out: 175'

hang-up (12:08) ended trawl

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
jellyfish	1			
cancer gracilus	16	8 – 11cm		
rock sole		22cm		
english sole	~~[illegible]~~ 7	13.5, 18.5, 11.5, 7, 18, 18.8, 5		
speckled sanddab		15		
roughback sculpin	~~[illegible]~~ 1	11.5cm		
sea pens	4			
anemone	6			
~~decorator~~ kelp crab	1			
tomcod	1	8-9cm		
shrimp	3			
dock shrimp	1			

Windward environmental LLC

Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	Sampling area: T1-E
Retrieval time: 13:13	Start coordinates: 13:08 X: 47 33.506 depth: 15' Y: 122 20.714
Collection method/Effort#: TR003	
Weather: partly cloudy, sun	End coordinates: 13:13 X: 47 33.323 depth: 28' Y: 122 20.608
Sampler: RAC, MGL	
Comments: 3-1E	set start: X 47.33.532 13:07 X 122.20.740 depth: 15'
tire & rock pulled up in trawl	wire out: 100' → 150'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
anemones	14 on tire			
purple crabs	35	11 cm		
pisaster	3			
striped neudabrank	2			
hermit crab	1			
snake pricklebacks	15	30 cm		
sea pen	1			
tomcods	5	10-12 cm		
coon striped shrimp	7			
kelp crab	1			
sunflower star	2			
acidian	1			
SS	1	3cm		
ES	34	18 cm, 17.5, 9.0, 9.2, 11.2, 17.2, 12.0, 13.2, 12.5, 13.5, 7.1, 16, 19, 14, 11.2, 11.3, 7.4, 12, 15.1, 9, 12, 9.4, 9.2, 7.3, 11.2, 12, 17, 16.5, 19, 9, 8, 9, 10, 8		
SF		7.0, 9.5		
PS	6	9.0 7.8 9.4 9.2 8.3 9.0		
pygmy poacher		6cm		
stergent poacher		7cm		
longfin sculpin	3	11-14 cm		
~~northern~~ sculpin	13	12-9 cm		
rock sole	11			

Pricklebacks MGL 12/2/04

Wind Ward environmental LLC

Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T1-D
Retrieval time: 7:57	Start coordinates: 0751 X: 47 33.744 Y: 122 20.742 depth: 30'-25'
Collection method/Effort#: TR004	
Weather: overcast & cool	End coordinates: 0757 X: 47 33.552 Y: 122.20.661 depth: 36'
Sampler: RAC, MGL	
Comments: 4-1D	start set: 0750 x: 47 33.787 y: 122 20.753 depth: 31'
	wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crabs 𝍸 𝍸 𝍸 III + 28	51	3.5-12 cm		
red rock crab	1	~16 cm		
decorator crab	4	18-32 mm & 1 baby (~4 cm)		
pisaster	2	24cm		
shrimp (coon-striped)	27			
~~Northern~~ Pricklebey 12/2/04 sculpin	1	9½ cm		
sunflower star	1	30 cm		
rock sole	3	20-28 cm		
english sole	1	17 cm		
starry flounders	2	9-12.5 cm		

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: T1-C
Retrieval time:	Start coordinates: 0814 X: 47 33.743 Y: 122 20.842 depth: 44'
Collection method/Effort#: TR005	
Weather: cloudy & cool, misty	End coordinates: 0820 X: 47 33.537 Y: 122 20.739 depth: 28'
Sampler: RAC, MGL	
Comments: 5-1 C	start set: 0813 X: 47.33.789 Y: 122 20.849 depth: 42'
switched to pencil b/c of rain	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
anemone ~~IIII~~ II	3			
tritonia	1			
sea pen	3			
neudabranks	5			
purple crab ~~IIII~~ + II		8 cm-3 cm		
mycid shrimp	1			
hermit crab	2			
coon striped shrimp	2			
dock shrimp	1			
Pacific tomcod	1	11 cm		
Surf smelt	1	13 cm		
snake prickleback	1	26 cm		
~~northern~~ Prickley 12/2/04 MGL sculpin	1	10 cm		
rock sole	11	[illegible]	21-29½ cm	
top of anenome	1			
speckled sand ab	1	11 cm		
sand sole		28½ cm-44 cm		tumors (bumps) on bottom → photo
english sole	1	9 cm		

up to picture 126
(last one is sand sole w/ parasites)

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T1-F
Retrieval time: 9:08	**Start coordinates:** 0902 X: 47 33.541 Y: 122 20.640 d= 20'
Collection method/Effort#: TR007	
Weather: overcast & misty	**End coordinates:** 0908 X: 47 33.337 Y: 122 20.538 d= 33'
Sampler: RAC, MGL	
Comments: 6-1F → lost sample	start set: 0901 X: 47 33.569 Y: 122 20.657 d= 23'
7-1F	
	Wire out: 150' → 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crab 卌 II	7	5-9 cm		
anemone 1	1			
sea star 1	1	12 cm		
coon striped shrimp II	2			
starry flounder 1	1	9 cm		
Pickley MGL 12/2/04 ~~Northern~~ sculpin	1	9 cm		
mysid shrimp	1			
rock sole 1	1	18 cm		
english sole IIII	4	17.5 cm, 8,	19.5, 19	

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T2-B
Retrieval time: 9:45	**Start coordinates:** 0939 X: 47 33.822 Y: 122 20.270 d = 37'
Collection method/Effort#: TR008	
Weather: cloudy, bright	**End coordinates:** 0945 X: 47 33.629 Y: 122 20.183 d = 32'
Sampler: RAC, MGL	
Comments: 8-2B	start set: 0938 x: 47 33.861 Y: 122 20.288 d = 37'
rotted log in trawl w/ worm holes, crate	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
coon striped shrimp	43			
jelly fish	8			
dungeness crab	1	18.5 cm		
anemone	20			
pisaster	14			
purple crab	21	6-8cm		
sunstar	2			
seapen	1			
neudabrank	1			
tomcod	3	10cm, 9, 10		
mycid shrimp	2			
decorator crab	2	2.5 cm		
clam	1			
PS	2	10cm 9.9cm		
rock sole	1	21.5,		
sand sole	2	17, 15		
english sole	13	18, 10, 16, 18.5, 16, 19.5, 19, 8, 17.5, 8, 7.5, 9, 10, 10, 9.5		
starry flounder	3	16, 14.5, 30.5		

Wind Ward environmental LLC

Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2-A
Retrieval time: 10:25	Start coordinates: 1019 X: 47 33.811 Y: 122 20.334 d = 37'
Collection method/Effort#: TR009	
Weather: cloudy	End coordinates: 1025 X: 47 33.620 Y: 122 20.224 d = 23'
Sampler: RAC, MGL	
Comments: 9-2A	start set: 1017 X: 47 33.858 Y: 122 20.359 d = 39'
	wire out: 230'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Coon striped shrimp ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ III	23			
neudobrank ~~IIII~~ I	6			
herring ~~IIII~~ II	7	11.8, 15.6 cm		
surf smelt ~~IIII~~ ~~IIII~~ II	12	13.3, 12.9 cm		
anemone IIII	4			
sea pen I	1			
purple crab	8	6-12 cm		
tom cod I	1	8 cm		
mycid shrimp II	2			
kelp crab I	1			
Pickley MBL 12/2/04 ~~northern~~ sculpin I	1	9 cm		
PS (pacific stag sculpin) II	2	9.5, 8 cm		
starry flounder II	2	23, 18.5 cm		
rock sole II	2	20, 29 cm		
english sole III	3	18, 17, 19 cm		
sand sole I	1	21 cm		

Wind Ward environmental LLC

Non-Target Species Tally Form

✓FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T2-F
Retrieval time: 10:58	**Start coordinates:** 10:51 X: 47 32.478 Y: 122 29.943 d = 25'
Collection method/Effort#: TR010	
Weather: cloudy	**End coordinates:** 10:58 X: 47 32.307 Y: 122 29.702 d = 20'
Sampler: RAC, MGL	
Comments: 10-2F	Start set 10:50 X: 47 32.503 Y: 122 29.979 d = 23'
	wire out: 150'

Species	#	Length Range (nearest ~~mm~~ cm)	Total Weight (nearest 0.5 g)	Comments
steelhead	1			
anemone	1			
sea pen	1			
purple crab ~~IIII~~ ~~IIII~~ III	13	12 cm, 3 cm		
~~slender crab~~				
pisaster III	3			
starry flounder II	2	13, 18		
snake prickleback	2	25, 28		
shad	1	14		
mycid shrimp	1			
pacific herring II	2	12, 14		
smelt	1	11		
tomcod II	2	9, 11		
pockle clam	1			

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Non-Target Species Tally Form

✓FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T2 - E
Retrieval time: 11:41	Start coordinates: 11:35 X: 47 32.437 Y: 122 19.956 d= 20'
Collection method/Effort#: TR012	
Weather: cloudy, bright	End coordinates: 11:41 X: 47 32.273 Y: 122 19.720 d= 22'
Sampler: RAC, MGL	
Comments: 11-2E → lost sample 12-2E	Start set: 11:34 X: 47. 32.459 Y: 122. 19.987 d= ~~20~~ 20' wire out: ~~170'~~ 150'

Species	#	Length Range (nearest cm)	Total Weight (nearest 0.5 g)	Comments
pisaster "	2			
cyanea (jellyfish) '	1	very large		
jellyfish '	1			
starry flounder "	2	3.5, 14		
purple crab ~~IIII~~	5	6 5.5-8 cm		
nevdabrank '	1			
english sole ~~IIII~~ I	6	17, 18, 19.5, 7, 7		
snake prickleback '	1	29		
rock sole '	1	25.5		
tom cod "	FM 3 ~~2~~	8.5, 10, 8		
SS '	1	6		
mycid shrimp '	1			
unknown sculpin ↑ possibly smoothead, bonehead or calico.	1			

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	**Sampling area:** T3-A
Retrieval time: 13:08	**Start coordinates:** 13:02 X: 47 31.985974 d= 13' Y: 122 19.252
Collection method/Effort#: TR013	
Weather: cloudy & bright, sun	**End coordinates:** 13:08 X: 47 31.9848 d=14' Y: 122 19.003
Sampler: RAC, MGL	
Comments: 13-3A	start set: 13:02 x: 47 31.985 d= 15' y: 122 19.271
	wire out: 75'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
snake prickleback "	2	29, 25		
purple crab "	3	8, 6, 4.7		
neudabrank "	2			
coon stripe shrimp "	2			
sea pen "	1			
unknown jellyfish "	1			
mycid shrimp "	2			
SS "	3	6, 6, 6		
starry flounder ~~IIII~~ ~~IIII~~	10	18, 14, 14.5, 17, 13, 14, 12, 15, 8, 15		
english sole ~~IIII~~	5	13, 19, 15, 8, 8		
PS "	1	8		
prickly sculpin	1	12 cm		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-B
Retrieval time: 13:27	Start coordinates: 13:22 X: 47 31.988 Y: 122 19.221 d = 12'
Collection method/Effort#: TR014	
Weather: cloudy, sunbreaks	End coordinates: 13:27 X: 47 31.852 Y: 122 19.991 d = 12'
Sampler: RAC, MGL	
Comments: 14-3B	start set: 13:21 X: 47 32.010 X: 122 19.255 d = 11'
	wire out: 75'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
pacific herring	1	12		
neudebrank	1			
purple crab	4	6.5, 5		
jellyfish	1			
SS	16	6, 7, 6, 5.5, 6, 5, 5.5, 6, 6.5, 5.5, 7.5, 6, 7, 5, 6, 6, 6		
starry flounder	11	14, 15, 15, 6, 17, 15, 13.5, 9, 13.5, 13, 16, 13		
coon stripe shrimp	2			
pile perch	1	7.5		
snake prickleback	1	35		
english sole	5	9, 9.5, 8, 12, 8		
mycid shrimp	6			

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-E
Retrieval time: 13:48	Start coordinates: 13:42 X: 47 31.693 Y: 122 18.759 d = 12'
Collection method/Effort#: TR015	
Weather: cloudy, sun	End coordinates: 13:48 X: 47 31.507 Y: 122 18.554 d = 12'
Sampler: RAC, MGL	
Comments: 15-36	set start: 13:41 X: 47 31.707 Y: 122 18.785 d = 11'
	wire out: 75'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
snake prickleback ~~IIII~~ ~~IIII~~ I	11	32, 30, 30, 22, 30, 31		
mycid shrimp II	2			
starry flounder ~~IIII~~ ~~IIII~~ ~~IIII~~ III ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~	28	FM 16, 15.5, 13.5, 19.5, 14, 13.5, 8.5, 16.5, 15, 8, 8.5, 8, 15, 14.5, 8.5, 8, 15.5, 12.5, 7.5, 13, 8, 8, 8, 8, 7, 12, 14, 4.5,		
english sole ~~IIII~~ ~~IIII~~ II	16	8.5, 8, 8.5, 8.5, 8.5, 8.5, 8.5, 8, 7.5, 10, 8, 7		7.5 counted as 7.5
purple crab IIII	4	10		
tomcod ~~IIII~~ II	7	11, 9, 9.5, 9.5, 10.5, 7.5, 9		
Shiner surfperch I	1	6		
sea pen I	1			
mycid shrimp ~~IIII~~ ~~IIII~~ IIII	14			
cockal clam I	1			
PS ~~IIII~~ II	6 FM	9.5, 9, 13, 10, 11, 11.5, 10.5		
SS ~~IIII~~ ~~IIII~~ ~~IIII~~ I	16	5.5, 5.5, 5, 6, 5, 7.5, 6.5, 5.5, 5.5, 6, 6, 6, 6, 6, 5.5, 6		
prickly sculpin	3	10-10.5		

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-C
Retrieval time: 14:18	Start coordinates: X: 47 31.782 d=17'
Collection method/Effort#: TR016	14:15 Y: 122 18.920
Weather: partly cloudy, sun	End coordinates: X: 47 31.846 d=12'
Sampler: RAC, MGL	14:18 Y: 122 19.034
Comments: 16-3C	set start: X: 47 31.768 d=16'
	14:14 Y: 122 18.896
	wire out: 100'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
english sole	2	5,8		
snake prickleback	5	35,30,28,33,29.5		
purple crab	5	6,8.5		
mycid shrimp	3			
lofa porosis	1			

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: T3-D
Retrieval time: ~~14:18~~ 14:35	Start coordinates: X: 47 31.732 d = 15'
Collection method/Effort#: TR017	1430 Y: 122 18.773
Weather: partly cloudy, sun	End coordinates: X: 47 31.863 d = 11'
Sampler: RAC, MGL	~~14:16~~ 14:35 Y: 122 19.004
Comments: 17-3D	Start set: X: 47 31.723 d = 13'
	~~14:14~~ 14:29 Y: 122 18.756
trawled slightly into channel b/c of obstacles	wire out: 100'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS ~~||||~~ |||	8	6, 6, 5.5, 5.5, 7, 6, 6.5, 6.5		
pacific herring |||	3	17, 12, 12		
snake prickleback	1	30		
mysid shrimp ~~||||~~ ~~||||~~ ||||	14			
purple crab ||||	4	6, 6.5		
tomcod	1	9		
PS ~~||||~~	5	9.5, 9, 9, 9, 9.5		
coukal clam	1			
english sole ||||	4	8.5, 8, 7, 7.5		
starry flounder ~~||||~~ ||||	9	7.5, 8, 8, 8, 15, 15, 14, 14, 16		
prickly sculpin	1	11,		

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T2 – C
Retrieval time: 7:55	Start coordinates: 7:53 X: 47 32.580 Y: 122 20.178 d= 27'
Collection method/Effort#: TR018	
Weather: cloudy	End coordinates: 7:55 X: 47 32.653 Y: 122 20.253 d= 34'
Sampler: RAC, MGL	
Comments: 18-2C	set start: 7:52 x: 47 32.556 y: 122 20.147 d= 23'
	wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
seaperch	2			
purple crab	16	7.5-11 cm		
sunflower star	1			
~~pisaster~~				
starry flounder	6	17, 15, 13.5, 17.5, 14.5, 45		
english sole	3	6, 7.5, 8.5, 7		
anemone	1			

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/4/04	Sampling area: T2-D
Retrieval time: 8:19	Start coordinates: 8:17 X: 47 32.609 d= 28' Y: 122 20.145
Collection method/Effort#: TR019	
Weather: cloudy	End coordinates: 8:19 X: 47 32.660 d = 34' Y: 122 20.206
Sampler: RAC, MGL	
Comments: 19-2D	set start: 8:16 X: 47 32.570 d = 30' Y: 122 20.105
	wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
seaperch	2			
purple crab +23	36	7 - 11		
pisaster	11	some mini, some large		
red rock crab	1	14.5		
rock sole	1	23		
english sole	10	17, 19.5, 18.5, 16.5, 16, 16, 7.5, 7.5, 18.5, 19.5		
starry flounder	6	15.5, 19.2, 14.5, 18, 15, 14.5		
sanddab	1	11		

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Non-Target Species Tally Form ✓ FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T3-F
Retrieval time: 9:02	Start coordinates: 8:54 X: 47 31.713 Y: 122 18.725 d= 19'
Collection method/Effort#: TR020	
Weather: Cloudy	End coordinates: 9:02 X: 47 31.510 Y: 122 18.506 d=13'
Sampler: RAC, MGL	
Comments: 20-3F	start set: 8:53 X: 47 31.729 Y: 122 18.747 d= 17'
	wire out: 125'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
mysid shrimp	20	only 52 measurements (FM)		
starry flounder	57	7.5, 13, 15, 8, 5, 8, 7, 8, 8.5, 7.5, 8.5, 10, 9.5, 13.5, 8.5, 16, 19, 12.5, 6.5, 7.5, 17, 7.5, 8, 7, 9, 7, 7, 8.5, 8, 8, 6.5, 7, 4, 7, 7, 6, 7, 17, 16, 7, 8.5, 7.5, 13.5, 14, 8.5, 8.5, 9, 7, 7, 5, 8, 6		
3 spine stickleback	1	7.5		
muscles attached to object				
SS " 32+28	63	6-12.5 cm		
english sole "	2	8, 6		
pile perch "	2	7, 7.5		
purple crab "	3	4.5, 6		
snake prickleback "	2	29, 29.5		
PS	2	9.5, 9.5		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T4-A
Retrieval time: 9:58	Start coordinates: 9:51 X: 47 31.083 Y: 122 18.394 d = 15'
Collection method/Effort#: TR021	
Weather: cloudy	End coordinates: 9:58 X: 47 30.856 Y: 122 18.302 d = 16'
Sampler: RAC, MGL	
Comments: 21-4A	start set: X: 47 31.096 Y: 122 18 398 d = 18'
	9:51
	wire out: 75'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	(80) 7 = <5, 13 = 5-8, 60 = 8-14.5	<5 = 𝍸 || (7)	5-8 = 𝍸 𝍸 ||| (13)	~~8~~ = 60 = 8-14.5 (60)
mycid shrimp 𝍸	5			
starry flounder	(68) 54 = <8, 14 = 12-20	~~17.5, 7.5, 6.5, 8, 7.5, 16, 5.5, 16, 18.5~~		|||| 𝍸 𝍸 (14) > 12 & < 20; 𝍸 𝍸, 10, 10 𝍸 |||| (54) < 8
purple crab |	1	5.5		
jellyfish |	1			
english sole ||||	4	8, 7, 7, 8		
vent nose clams 𝍸 ||	7	3		
PS	5	8-9 cm		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/04	Sampling area: T4-B
Retrieval time: 10:33	Start coordinates: 10:29 X: 47 31.029 Y: 122 18.321 d = 15'
Collection method/Effort#: TR022	
Weather: cloudy	End coordinates: 10:33 X: 47 30.871 Y: 122 18.257 d = 10'
Sampler: RAC, MGL	
Comments: 22-4B	set start: 10:28 X: 47 31.046 Y: 122 18.320 d = 11'
	wire out: 75'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	76 <8 = 70, 8-12 = 6	<8 = 10, 10, 9, 1 (70); 10, 10, 10, 10	>8 = 1+5 (6)	
mycid shrimp 1+10	11			
3-spine stickleback 111	6.5			
starry flounder	6	<8 = 5, >8 = 1		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22	
Date: 8/4/04	Sampling area: T4-C	
Retrieval time: 11:05	Start coordinates: 11:01	X: 47 30.845 d = 12'
Collection method/Effort#: T R023		Y: 122 18.305
Weather: cloudy, bright	End coordinates: 11:05	X: 47 30.721 d = 9.8'
Sampler: RAC, MGL		Y: 122 18.222
Comments: 23-4C	set start: 11:00	X: 47 30.862 d = 11'
		Y: 122 18.310
	wire out: 75'	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
25, 49, 10, 10, 10 卌 卌 卌 卌 卌 卌 卌 卌 || mycid shrimp	146			
shiner surfperch	(272) <8 = 228 >8 = 64	<8 = 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10, 8 (228); 8> = 64		
starry flounder	(144) <8 = 120 8-20 = 22	<8 = 10, 10, 10, 10, 10, 10, 10, 2, 10, 3, 10, 10, 15 (120); 8-20 = 8, 1, 5, 4, 4, (22)		
3 spine prickleback	7	7		
PS 卌	5	-9cm		

Target fish collected:

SS-20

SF-7 (47)

PS-20

TM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/09	Sampling area: T4-D
Retrieval time: ~~12:34~~ 13:12	Start coordinates: X: 47 30.~~857~~ 866 d = 12'
Collection method/Effort#: TR025	13:09 Y: 122 18.~~264~~ 266
Weather: cloudy	End coordinates: X: 47 30.~~753~~ 756 d = 12'
Sampler: RAC, MGL	13:12 Y: 122 18.~~168~~ 172

Comments: 24-4D → lost sample (too much mud-end came undone)
25-4D

start set: X: 47 30.~~868~~ 873 d = 12'
13:08 Y: 122 18.~~268~~ 267

wire out: ~~100'~~ 50'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
mycid shrimp 10,20	~30			
SS	(165) <8=68 >8=97	<8=35,22,11 >8=97	(68)	
PS |||||	4	9-8cm		
starry flounder	(132) <8=128 8-20=5	<8=70,57 =128 8-20=5		
pacific sandlance	1	baby		

Target fish collected:
SF-1 PS-5
PP-1
SS-20

(27)

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T1-A
Retrieval time: 8:14	**Start coordinates:** 8:10 X: 47 33.923 Y: 122 20.918 d = 42'
Collection method/Effort#: ~~TB026~~, TR027	
Weather: cloudy, bright	**End coordinates:** 8:14 X: 47 33.801 Y: 122 20.853 d = 43'
Sampler: RAC, MGL	

Comments: 26-1A → hung net up
27-1A → trawl ended b/c of hang-up.

start set: 8:09 X: 47 33.967 Y: 122 20.936 d = 36'

wire out: ~~300'~~ 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crab	7	8, 9.5		
anemone "	2			
sea pen "	1			
SS "	1	7		
decorator crab "	1	3		
hermit crab "	1			
coon stripe shrimp "	1			
mysid shrimp	5			
starry flounder "	2	26.5, 28.5		
sand sole	1	23		
rock sole	1	21		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/5/04	Sampling area: T1-D
Retrieval time: 8:57	Start coordinates: 8:51 X: 47 33.754 Y: 122 20.744 d = 30'
Collection method/Effort#: TR028	
Weather: partly cloudy	End coordinates: 8:57 X: 47 33.547 Y: 122 20.650 d = 27'
Sampler: RAC, MGL	
Comments: 28-1D	set start: 8:50 X: 47 33.783 Y: 122 20.756 d = 28'
	wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
sunflower star	1			
pisaster	5			
purple crab	38	5-12		
decorator crab	2	3		
coon stripe shrimp	10			
mycid shrimp	2			
rock sole	2	14.5, 27		
No target spp.				

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T1-D
Retrieval time: 9:21	Start coordinates: 9:15 X: 47 33.740 Y: 122 20.757 d = 38'
Collection method/Effort#: TR029	
Weather: partly cloudy, sun	End coordinates: 9:21 X: 47 33.543 Y: 122 20.652 d = 32'
Sampler: RAC, MGL	
Comments: 29-1D	set start: 9:14 X: 47 33.778 Y: 122 20.771 d = 38'
	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
sunflower star "	2			
purple crab ~~#11 1~~ 22	22	3.5-8.5		
coon stripe shrimp	5			
rock sole "	2	24, 16		
decorator crab "	2	3		
juvenile red rock crab	1			
hermit crab	1			
PS "	1	6.5		
english sole	2	9cm		
roughback sculpin	1	10 cm		

PM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T1-D
Retrieval time: 10:20	Start coordinates: X: 47 33.742 Y: 122 20.765 d = ~~32~~ 38' 10:14
Collection method/Effort#: ~~TR030~~ TR031	End coordinates: X: 47 33.543 Y: 122 20.661 d = 36' 10:20
Weather: partly cloudy, sunny	
Sampler: RAC, MGL	
Comments: 30-1D → cotend not tied, lost sample 31-1D	start set: X: 47 33.777 Y: 122 20.778 d = ~~41~~ 39' 10:13
	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
coonstripe shrimp ~~IIII~~ III	8			
pisaster '	1			
purple crab ~~IIII~~ I	6			
decorator crab IIII	4	3.5		
english sole "	2	9,9		
rock sole "	2	23,26		
roughback sculpin '	1	6.5		
mycid shrimp '	1			
PS '	1	8.5		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T2-D
Retrieval time: 10:47	**Start coordinates:** 10:44 X: 47 32.596 Y: 122 20.132 d = 29'
Collection method/Effort#: TR032	
Weather: Sunny	**End coordinates:** 10:47 X: 47 32.669 Y: 122 20.207 d = 32'
Sampler: RAC, MGL	
Comments: 32-20	set start: 10:43 X: 47 32.569 Y: 122 20.108 d = 27'
	Wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
hermit crab	1			
anemone |||||	4			
sea pen '	1			
tomcod "	2	8, 10.5		
neudabrank "	2			
purple crab ~~||||~~	5			
english sole ~~||||~~||	7	18, 17, 16, 15, 12, 7, 8		
starry flounder "	~~3~~ 2	16, 18, 15.3,		
sunflower star	1			
pisaster '	1			
mycid shrimp "	2			
SS '	1	7.5		
caukal clam "	2			
rock sole "	2	28.5, 36		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T2-F
Retrieval time: 11:14	Start coordinates: 11:08 X: 47 32.443 Y: 122 19.912 d=29'
Collection method/Effort#: TR033	End coordinates: 11:14 X: 47 32.289 Y: 122 19.677 d=24'
Weather: sunny	
Sampler: RAC, MGL	
Comments: 33-2F	

Start set: X: 47 32.479 Y: 122 19.945 d=28'
11:07
Wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crab ~~IIII~~ ~~IIII~~ I	11	6-10		
pisaster IIII	4			
anemone I	1			
pacific herring II	2	12.5, 16		
starry flounder IIII	4	15.5, 12, 14, 15.5		
tom cod I	1	10		
nevdabrank I	1			
decorator crab I	1	15		
english sole I	1	18		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T3-C
Retrieval time: 11:40	Start coordinates: 11:37 X: 47 31.834 Y: 122 19.014 d = 23'
Collection method/Effort#: TR034	
Weather: sunny	End coordinates: 11:40 X: 47 31.819 Y: 122 18.982 d = 23'
Sampler: RAC, MGL	
Comments: 34-3C	set start: 11:36 X: 47 31.757 Y: 122 18.873 d = 20'
	wire out: 125'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
starry flounder IIII	6 (8-20 cm)	~~16, 18, 18~~	<8 = 8-20 = IIII	
neudabrank '	1			
caukal clam '	1			
purple crab '	1			
english sole	4 (all <8cm)	<8 = IIII		
mycid shrimp 4	4			
snake prickleback '	1	35		

✓ PM

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/5/04	Sampling area: T3-C
Retrieval time: 11:58	Start coordinates: X: 47 31.824 d=24'
Collection method/Effort#: TR035	11:53 Y: 122 18.983
Weather: sunny	End coordinates: X: 47 31.694 d=19'
Sampler: RAC, MGL	11:58 Y: 122 18.0760
Comments: 35-3C	start set: X: 47 31.841 d=24'
	11:52 Y: 122 19.007
	Wire out: 125'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
sea pen	1			
purple crab	2			

✓FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/09	**Sampling area:** T3-RC
Retrieval time: 13:06	**Start coordinates:** 13:00 X: 47 31.824 Y: 122 19.981 d=23'
Collection method/Effort#: TR036	**End coordinates:** 13:06 X: 47 31.695 Y: 122 19.761 d=18'
Weather: sunny	set start: 12:59 X: 47 31.840 Y: 122 19.008 d=22'
Sampler: RAC, MGL	wire out: 125'
Comments: 36-3RC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crab	4	12		
herring	1	15		
snake prickleback	1	~30		
hermit crab	1			
english sole	3	1=<8cm 2=8-20cm		

FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	Sampling area: T1-F
Retrieval time: 13:46	Start coordinates: 13:40 X: 47 33.530 Y: 122 20.651 d=28'
Collection method/Effort#: TR037	
Weather: Sunny	End coordinates: 13:46 X: 47 33.335 Y: 122 20.544 d=30'
Sampler: RAC, MGL	
Comments: 37-1F	set start: 13:39 X: 47 33.566 Y: 122 20.674 d=28'
	wire out: 175'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
purple crab 卌 1	6			
mycid 1	1			
snake prickleback 卌 1	6	22-30cm		
sebellid tubeworms				
tomcod 1	1	10.5 cm		
coon striped shrimp	2			
mycid shrimp	1			
rock sole 11	3	28.5, 25		
english sole 1	5	<8 cm = 1 ① 8-20cm = 1111 ④		
roughback sculpin	1	11 cm		
SS	~~3~~ 2	<8 cm		
pygmy poacher	1	8.5 cm		

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-A
Retrieval time: 7:43	**Start coordinates:** 7:37 X: 47 33.927 Y: 122 20.919 d=40'
Collection method/Effort#: TR038	
Weather: cloudy & rain	**End coordinates:** 7:43 X: 47 33.732 Y: 122 20.817 d=40'
Sampler: MGL, DMP	
Comments: 38-1A	set start: 7:36 X: 47 33.967 Y: 122 20.933 d=33'
	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
coon stripe shrimp	14			
sunflower star	2			
purple crab	5	3.5-10.5		
decorator crab	1	3		
pisaster (armenia)	1			
neudabrank	1			
anemone	1			
starry flounder	1	21.5		
sand sole	2	38		
rock sole	1	26		
english sole	10	19-36		
PS	1	9.5		
roughback sculpin	2	14, 10		
northern sculpin	1	12		

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/5/04	**Sampling area:** T1-A
Retrieval time: 8:07	**Start coordinates:** 8:01 X: 47 33.944 Y: 122 20.916 d= 45'
Collection method/Effort#: TR039	
Weather: cloudy, rain	**End coordinates:** 8:07 X: 47 33.726 Y: 122 20.813 d= 40'
Sampler: MGL, DMP	
Comments: 39-1A	set start: 8:00 X: 47 33.966 Y: 122 20.930 d= 33'
	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
decorator crab	1			
purple crab	III	14.7		
starry flounder	1	39, 22		
sunflower star	1			
neudabrank (genus: armena)	1			
sand sole				
rock sole	5	~30, 20, 20, 25, 15		
tomcod		6.5		
coon stripe shrimp	~~IIII~~ IIII			
english sole	~~IIII~~ III	20-36 cm		
northern sculpin	1	14		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-C
Retrieval time: 8:30	**Start coordinates:** 8:25 X: 47 33.664 Y: 122 20.792 d=30'
Collection method/Effort#: TR040	
Weather: cloudy, rain	**End coordinates:** 8:30 X: 47 33.514 Y: 122 20.703 d=34'
Sampler: MGL, DMP	
Comments: 40-1C	set start: 8:24 x: 47 33.713 y: 122 20.814 d=40'
	Wire out: 200'

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
sea star '	1			
purple crab 卌 卌 IIII	14	2-6-11		
starry flounder '	1	45		
dungeness crab "	2	14, 15		
sand sole '	1	48		
tomcod '	1	10		
neudabrank 10,2	12			
hermit crab "	2			
kelp crab '	1			
english sole	11 8-20cm=10 <8cm=1	8-20 cm = 卌 卌 <8 cm = 1 >20 = 11 2	10 1	
rock sole	2			

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** 14-B
Retrieval time: 9:36	**Start coordinates:** 9:33 X: 47 31.144 Y: 122 18.211 d = 20'
Collection method/Effort#: TR041	
Weather: cloudy, rain	**End coordinates:** 9:36 X: 47 31.098 Y: 122 18.343 d = 20'
Sampler: MGL, DMP	
Comments: 41-4B (slip 6)	set start: 9:32 X: 47 31.159 Y: 122 18.183 d = 21'
	wire out: 125'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
urchin	1			
purple crab	3			
smelt	9	12,8		
mycid shrimp	5			
muscles				
SS	39	<8cm = ~~IIII~~ ~~IIII~~ ~~IIII~~ ~~IIII~~ +19		
anemone	1			
starry flounder	4	<8 cm = II (2) 8-12 cm = II (2)		
english sole	1	<8cm		

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/6/04	Sampling area: T2-D
Retrieval time: 10:16	Start coordinates: 10:14 X: 47 32.556 Y: 122 19.923 d = 24'
Collection method/Effort#: TR042	End coordinates: 10:16 X: 47 32.532 Y: 122 20.024 d = 25'
Weather: cloudy, rain	set start: 10:13 X: 47 32.565 Y: 122 19.882 d = 25'
Sampler: MGL, DMP	wire out: 150'
Comments: 42-2D (slip 3)	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
starry flounder	9	<8cm = IIII 8-20cm = IIII		
SS	18	<8cm = 18		
purple crab	1			
mycid shrimp	1			
sea pen	1			
sea star	1			
english sole	1	<8cm = 1 8-12cm =		
3 spine stickeback	1	9cm		

FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry

Project #: 04-08-06-22

Date: 8/6/04

Sampling area: T2-B

Retrieval time: 10:44

Collection method/Effort#: TR043

Start coordinates: 10:41 X: 47 32.797 Y: 122 20.153 d= 26'

Weather: cloudy, rain

Sampler: MGL, DMP

End coordinates: 10:44 X: 47 32.702 Y: 122 20.240 d= 37'

Comments: 43-2B (slip 2)

set start: 10:40 X: 47 32.819 Y: 122 20.124 d= 25'

wire out: 150'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
anemone 1111	4			
star fish ~~1111~~ 1	6			
purple crab ~~1111~~	5	10,6		
urchin (green sea urchin) 1	1			
hermit crab 1	1			
Coon stripe shrimp 111	3			
english sole	7	<8 cm= 111 (3) 8-20= 1111 (4)		
starry flounder	2	8-20 cm=1 >20cm=1		
sand dab	1	8-12 cm=1		

FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/6/04	**Sampling area:** T1-F
Retrieval time: 11:06	**Start coordinates:** 11:04 X: 47 33.405 Y: 122 20.517 d= 34'
Collection method/Effort#: TR044	
Weather: cloudy, rain	**End coordinates:** 11:06 X: 47 33.395 Y: 122 20.595 d= 45'
Sampler: MGL, DMP	
Comments: 44-1F (slip 1)	set start: X: 47 33.411 d=36'
	11:03 X: 122 20.459
	wire out: 200'

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
sunflower star '	1			
purple crab ''''	4			
urchin ''	2			
anemone '''	3			
tomcod '	1	9.5		
english sole	10	<8cm = 1111 (4) 8-20 cm = ~~1111~~ 11 (6)	~~[illegible]~~	
starry flounder '	1	29		
coon stripe shrimp '''	3			
northern sculpin	1	9.5cm		

PM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/4/03	Sampling area: T1-C
Retrieval time: 11:27	Start coordinates: 11:21 X: 47 33.727 Y: 122 20.822 d=41'
Collection method/Effort#: TR045	
Weather: cloudy	End coordinates: 11:27 X: 47 33.516 Y: 122 20.725 d=26'
Sampler: RAC, MGL	
Comments: 45-1C	set start: 11:20 x: 47 33.765 y: 122 20.843 d=42'
	wire out: 200'

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
snake prickleback II	2	36, 34		
Purple crab ~~IIII~~	5			
newlabrank ~~IIII~~ I	6			
dungeness crab II	2	19, 6		
english sole	11	<8 cm = 4 8-20 cm = 7		
tomcod	1	9.5		
rock sole I	1	35		
coon stripe shrimp III	3			
sand sole I	1	29		
~~[illegible]~~		~~[illegible]~~		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4A
Retrieval Time: 8:55		Start coordinates	X:
Collection method/Effort #: TR 46			Y:
Weather: Cloudy - 65'		End coordinates	X:
Sampler: MGL			Y:
Comments: 17PS >10			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Longfin smelt	3	110 - 140		
mysid shrimp	~~IIIII~~ II ~~8~~ ~~3~~			
Shiner surfperch		70 - 134		
starry flounder	30 + 163 = 193	0 - 100		
starry flounder	19	100 - 200		
PS	2	80 - 90		
Tom cod	8	100 - 136		
Snake Prickleback	1	265		
English sole	4	<100		
English sole	9	100 - 200		
Dungeness Crab	1	85		

✓ PFI

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4A
Retrieval Time: 9:30		Start coordinates	X:
Collection method/Effort #: TR47			Y:
Weather: Cloudy, 65°		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Starry flounder	~~<100~~ 98+13 ~~>100-200~~ 34	<100 >100-200		
Starry flounder	~~>200~~ 2	>200 201, 342		
shiner surfperch	241	68-130		
Longfin smelt	2	130		
Tomcod	6	110-130		
Mysid shrimp	3			
English sole	3	<100		
PS	9	<100		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4B
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 48			Y:
Weather: Cloudy ~65°		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
chinook salmon	1	~170		unclipped
SS (251)	75 + 101 + 16 + 59	64-140		
TOMCod	6	110-140		
SF	61 7	< 100 > 100-200		
mysid shrimp	8			
PS	2	< 100		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	3D
Retrieval Time: 10:37		Start coordinates	X:
Collection method/Effort #: ~~TR 19~~ TR 49			Y:
Weather: Partly Cloudy ~ 65		End coordinates	X:
Sampler: MGL			Y:
Comments: SS-3, PP-3, SP-1			
SF-2, PS-15			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	198	70-130		
SF	43 +11	<10 ~~+11~~ 710-20		
Longfin smelt	~~130~~ 1	130		
Tomcod	7	80-143		
~~SB~~	~~[illegible]~~			
English sole	10 + 2	<100 +3 (100-200)		
Eulachons	1			
PP	4	<80		
PS	9	<10		
Snake Prickleback	8	290-250		
Sea Pen	1			
MYA	1			
C. gracilis Coastripe shrimp	8 1	25-75		
mysid shrimp	6			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	3-D
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: FR 50			Y:
Weather: Partly Cloudy ~70°		End coordinates	X:
Sampler: MLL			Y:
Comments: 1 Gracilis, 1 Dorsy, SP-, SF-2 PS-3, ES-1			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Anemone	1			
C. Gracilis	3			
SF	35	<100		
SF	20	>100-200		
SS	41	88-152		
PP		73-		
SP	1 (kept)			
ES	6	<100		
ES	2	>100-200		
PS	14	88-166		
Mysid	3			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/01		Sampling area:	4B (in channel)
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR51			Y:
Weather: Sunny 70°		End coordinates	X:
Sampler: MGL			Y:
Comments: PS-13, SF-1, PP-2			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	215 +8	65-150		
PS	3			
SF	85 + 7+2 22	<10 >100 200		
TOMCOd	5	99-120		
mysid	4+1			
PP	2	<80m		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4C
Retrieval Time: 13:22		Start coordinates	X:
Collection method/Effort #: TR 52			Y:
Weather: Sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: PS-15			
SF 2			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	50, 212	60-114		
PS	4	<10		
SF	70 56	<10 >10		
Tomcod	8	96-120		
longfin smelt	2	115		
mysid shrimp	6			
Cockle	1			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/30/04		Sampling area:	4D
Retrieval Time: ~~TR53~~ 1357		Start coordinates	X:
Collection method/Effort #: TR53			Y:
Weather: sunny		End coordinates	X:
Sampler: MGG			Y:
Comments: PS 20, SF 1			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
PS	19 + 3, 1111	1		
SS	100, 52, 39, 15 98,			
Tomcod	14 1	102-125		
SF	50, 327 / 87, 23	<100 / >100<200		
Longfin smelt	~~1~~ 3	60-120		
ES	1	100		
Mysid shrimp	14			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 54			Y:
Weather: Pt Cloudy		End coordinates	X:
Sampler: MGL			Y:
Comments: SS-1, ES-1, PS-2 SF-2			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
P. Herring	1	125		
SS		75-112		
SF	3	100-200		
	15	<100		
ES.		115		
mysid	3			
gracilis	1			
PS	1	110		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time: 8:30		Start coordinates	X:
Collection method/Effort #: TR55			Y:
Weather: PC Cloudy		End coordinates	X:
Sampler: MGL			Y:
Comments: few fish captured trawled shallower			
PS-1, SF-2,			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
tomcod	1	111		
SS	~~4~~ 12	67-115		
SF	15	0-100		
	4	100-200		
Mysids	~~X~~ ~~12~~ 12			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4B
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 56			Y:
Weather: Pt cloudy ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: Dung-1, SF-1, PS-9,			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	115	68-110		
PS	~~10~~ ~~12~~ 10	<120 ~~100-120~~		
longfin smelt	4	100-120		
tomcod	3	110-130		
SF	8	100-200		
	53	0-100		
ES	1	110		
mysids	11			
UNK Sculpin	2	110		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	4D
Retrieval Time: 9:17		Start coordinates	X:
Collection method/Effort #: TR 57			Y:
Weather: pt cloudy ~70°		End coordinates	X:
Sampler:			Y:
Comments: Mud ~ vcl 2 SF, 3 PS			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Snake Prickleback	2	285, 290		
SS	65, 60, 138, 75	62 - 120		
tomcod	4 ~~2~~	100, 110, 120		
SF	30, 66, 7, 27, 57	<100		
	7, 15, 18, 15, 22	100 - 200		
Longfin smelt				
PS	~~14~~ ~~12~~ 19	120-140		
	7 ~~18~~ 19	<120		
Northern Sculpin	1	150		
SF	37, 30, 42, 55	<100		
	8, 2, ~~54~~ 2	100-200		
Mysids	13			
Longfin	3	110		
tomcod	13	120		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/31/04	**Sampling area:** 4D
Retrieval time: 10:12	**Start coordinates:** X: Y:
Collection method/Effort#: TR 58	
Weather: Sunny ~70	**End coordinates:** X: Y:
Sampler: MBC	

Comments: PP-1, 8 SP, ~~85~~

Species		#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	50, 80, 112, 105, 100, 75, 39		75-145		
SF	50, 30, 50, 35, 15, 60		0-100		
	20, 5, 8, 6, 20, 1, 71		100-200		
Tomcod		9, 7, 4, 2, 1, 1, 1, 1	105-120-135		
longfin smelt		2, 1	105, 115		
gracilis	1		82		
mysid	4, 1, 6				
ES/SF hybrid		3	100, 85, 55		
~~SF~~			~~0-100~~		
			~~100-200~~		
PP	1		90		
PS		50	8-10cm		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/31/04	Sampling area: 3.B
Retrieval time: 10:14	Start coordinates: X: Y:
Collection method/Effort#: TR59	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MGL	
Comments: SS-7	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner surfperch	23, 85, 10, 2	75-115		
Gracilis				
SF	2,	100-200		
	15, 6	0-100		
~~Hybrid sole~~				
Mysid	1			

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Non-Target Form

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 8/31/04		Sampling area:	3B
Retrieval Time: 12:25		Start coordinates	X:
Collection method/Effort #: TR60			Y:
Weather: Sunny ~70°		End coordinates	X:
Sampler: MGL			Y:
Comments: ES-1, PS 6			

species ~~SPECIMEN ID #~~	count ~~SPECIES~~	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
SS	25, 18, 50, 55, 7	PS ~140		
ES		<100		
PS	3	<12		
SF	20, 10, 37, 8, 5	0-100 100-200		
Mysid	6			
Gracilis	1	<90		

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non target species

~~Target Fish and~~ Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/31/04	**Sampling area:** 3B
Retrieval time: 12:52	**Start coordinates:** X: Y:
Collection method/Effort #: TR61	
Weather: Sunny	**End coordinates:** X: Y:
Sampler: MGL	

Comments: SF-2, PS-10, 1ES

Species ~~SPECIMEN ID #~~		Count ~~LENGTH~~ (nearest mm)	Length ~~WEIGHT~~ (nearest 0.5 g)	GENDER	COMMENTS*
snake prickleback		2 ~~310~~	310		
Sand sole		1	230		
English sole	2,1		180, 70, 90		
SS	40, 50, 50, 39, 6		60-140		
SF	11, 10, 41		<100		
PS		8	< 120		
mysid		3			
gracilis		2	<90		

Wind Ward environmental LLC

non target

~~Target Fish and Crab~~ Species Collection Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/31/04	**Sampling area:** 3B
Retrieval time: 13:22	**Start coordinates:** X: Y:
Collection method/Effort #: TR 62	
Weather: Sunny 70°	**End coordinates:** X: Y:
Sampler: MGC	
Comments: DC-1, PS 1	

Species ~~Specimen ID #~~	Count	~~Length~~ (nearest mm)	~~Weight~~ (nearest 0.5 g)	Gender	Comments*
SF	5, 2		100-200		
	12,		<100		
SS	100		80-130		
PS	3		<12		
gracilis	1		<9		
Mysid	1				

Wind Ward environmental LLC

non-target

~~Target Fish and Crab Species~~ Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/31/04	Sampling area: 3F
Retrieval time: 1:50	Start coordinates: X: Y:
Collection method/Effort #: TR~~62~~ 63	
Weather: Sunny	End coordinates: X: Y:
Sampler: MGL	

Comments: 2ES, 2SF, 1PP, 3SS, 9PS

Species ~~Specimen ID #~~		Coral ~~Length~~ (nearest mm)	length ~~Weight~~ (nearest 0.5 g)	Gender	Comments*
TOMCOD	9		110-130		
PP	8, 1		80-90		
Snake Prickleback	3		230-250		
SS	50, 63		60-140		
PS	20,		<120		
	14		>120		
ES	6		>100		
	14		<100		
mysids	2				
SF	31		>100-200		
	66		<100		
gracilis	1		<90		

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: ~~8/31/04~~ 9/1/04		Sampling area:	~10
Retrieval Time: 8:17		Start coordinates	X:
Collection method/Effort #: TR 64			Y:
Weather: ~~Rain~~ cloudy ~ 60° no wind		End coordinates	X:
Sampler:			Y:
Comments: 3-PS			

SPECIES		#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS		66, 6, 257	70 - 163		
SF	19,	54	0-100 100-200		
PS		22	85 - 130		
PP		1	90		
Longfin smelt		2	130		
tomcod		1	110		
mysid		3			
Macoma? clam					

Wind Ward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4D
Retrieval Time: 9:00		Start coordinates	X:
Collection method/Effort #: TR65			Y:
Weather: Cloudy ~60		End coordinates	X:
Sampler: MBL			Y:
Comments: PP-1			lots of mud, leaves, enteromorpha

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Longfin smelt	2	~130		
tomcod	~~4~~ 5	110		
SS	10, 136, 103, 30 10			
~~PP~~				
Snake Prickleback		250		
PS	29	135-90		
chinook salmon		145		dead, unclipped
SF	24, 94 75	~~[illegible]~~		
Mysids	2, 4			
3 spine stickleback	1	~100		
Polychaetes	4			
ES	1	~90		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4B
Retrieval Time: 10:02		Start coordinates	X:
Collection method/Effort #: TR66			Y:
Weather: Pt Sunny ~60		End coordinates	X:
Sampler: MGL			Y:
Comments: 3PS, 1SF, 2DC			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
PS	~~X~~ 25,5	90-150		
Macoma	2			
SF	81,	0-100		
	12	100-200		
SS	64, 123, 125	50-140		
ES	2	<100		
Mysid	5, 3			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4B
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 67			Y:
Weather: Pt cloudy ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: 1 DC			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Northern Sculpin	1	90		
RS	6	85 - 130		
SF	24, 70	0-100		
	1, 5	100-160-200		
ES	1	<100		
Mysid	19			

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	4B
Retrieval Time: 11:00		Start coordinates	X:
Collection method/Effort #: TR 68			Y:
Weather: PC Sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: 1 SF, 3 PS			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
longfin smelt	1	170		
PS	6	100-120		
SF	34	0-100		
	3	100-200		
ES	*2	<100		
Mysid	10			
northern sculpin	1	~90		
SS	125			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	3E
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR69			Y:
Weather: Pt Cloudy ~ 65		End coordinates	X:
Sampler: MGL			Y:
Comments: PP-1, SP-1, DC-1 twist in net			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
gracilis	1	<90		
SS	7			
SF	1	<100		
mytelus edulis	bunch attached to detritus			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	3E
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 70			Y:
Weather: Pt Sunny ~65		End coordinates	X:
Sampler: MGL			Y:
Comments: 3 PP, 5 SP,			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
tomcod	2	100-220		
longfin smelt	1	~150		
northern sculpin	2	~100		
PS	2	<150		
gracilis	2			
Sea Pen	1			
ES	5	<100		
	1	100-200		
SS 9,17,52,70		145-60		
Longfin smelt	1			
SF	6	<100		
	5	100-200		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/1/04		Sampling area:	3A
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 71			Y:
Weather: Mostly Cloudy		End coordinates	X:
Sampler: MGC			Y:
Comments: 2 ES, 2 PS(>20), 5 PP			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Coniglen smelt	2	~150		
tomcod	3	~100		
1 gracilis		<90		
2 nudibranchs	2			
Coonstripe	3			
N. Sculpin	5			
Seapen	3			
Mysids	3			
~~SE~~ E.S.	4	100-200		
	6	<100		
SF	4	100-200		
	1	<100		
SS	16	65-140		
PP	1	<100		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/2/04	Sampling area: 4D
Retrieval time: 08:20	Start coordinates: X: / Y:
Collection method/Effort#: TR 72	
Weather: Pt cloudy ~65, slight wind	End coordinates: X: / Y:
Sampler: MGL	
Comments: SF 2	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner Surf Perch	21	70-190		
SF	32	<100		
	2	100-200		
PS	1	140		
MS Mysid shrimp	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/04	Sampling area: 4D
Retrieval time: 08:35	Start coordinates: X: / Y:
Collection method/Effort#: TR 73	
Weather: pt cloudy ~68°	End coordinates: X: / Y:
Sampler: MGL	
Comments: 3 SF, 1 PS	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	~~60~~ 107	70-150		
TC Tom Cod	3	111		
MS Mysid shrimp	~~25~~ 150 ~~40~~	<100		
SF	2	100-200		
PS	20	<150		

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/04	Sampling area: 4D
Retrieval time: 08:48	Start coordinates: X: Y:
Collection method/Effort#: TR 74	
Weather: partly cloudy, ~65	End coordinates: X: Y:
Sampler: MGL	

Comments: 1 PP. tree branch in net, lots of barnacles

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
PS	13	<150		
SS	41 ~~75~~	75-50		
SF	39	<100		
	3	100-200		
~~PP~~				
Tom Cod	1	120		
Mysid Shrimp	4			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 09/02/2004	Sampling area: 4B
Retrieval time: 09:20	Start coordinates: X: Y:
Collection method/Effort#: TR 75	
Weather: partly cloudy, ~63	End coordinates: X: Y:
Sampler: MGL	
Comments: 3 PS, 1SF	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
chinook-juvenile	2	~170 mm		released & swam away
herring	1	~170		
grace full crab	1	<90		
SS	362 (2+20) 1+90+4 35+4+4 (184+18) 316	70-140		
Tom Cod	x3	115-140		
Mysid shrimp	26+1			
SF	61+26=87	<100		
	4	100-200		
PS	22	<130		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 09/02/2004	Sampling area: 4D
Retrieval time: ~~10:02~~ 09:52	Start coordinates: X: Y:
Collection method/Effort#: TR76	
Weather: partly cloudy	End coordinates: X: Y:
Sampler: MGL	
Comments: 2 SF, 4 PS, 1 PP	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Longfin smelt	4+7+13 (24)	110-165		
Tom Cod	(28) 1+7+1+13+6	105-155		
SS	(406) 1+3+212+70-120			
PS	1+19 (20)	<130		
SF	1+6+102+65 (174)	<100		
	5+22+10 (37)	100-200		
Mysid shrimp	1+4 (5)			
ES	2	<100		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/04	Sampling area: 413
Retrieval time: 11:00	Start coordinates: X: Y:
Collection method/Effort#: TR 77	
Weather: partly cloudy, ~70°	End coordinates: X: Y:
Sampler: MGL	

Comments: 3 PS, 1 english sole, 1 SF

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
sand sole	(1) ~~195~~	195		
SF	8	<100		
SF	4	100-200		
PS	3	100-120		
SS	32	70-110		
Mysid shrimp	9			
Northern sculpin	1	100		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 4B
Retrieval time: 11:18	Start coordinates: X: Y:
Collection method/Effort#: TR 78	
Weather: partly cloudy, ~72°	End coordinates: X: Y:
Sampler: MGL	
Comments: 12 ES, 1 DC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	22	<100		
	4	>200		
	19	100-200		
longfin shad/t	9	105-130		
~~herring~~				
PS	10	110-210		
SS	280	50-100		
Tom Cod	1+11	110-140		
Macoma mesuda (bentnose clam)	1			
ES	21 4	<100		
		100-200		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3B
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort#: TR 79	
Weather: partly cloudy, ~75°	End coordinates: X: Y:
Sampler: MGL	
Comments: no keepers	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	3	<100		
	2	100-200		
SS	60	65-120		
~~PS~~ GC	1			
mysid shrimp	3			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3A
Retrieval time: 12:29	Start coordinates: X: Y:
Collection method/Effort#: TR 80	
Weather: mostly cloudy, ~73	End coordinates: X: Y:
Sampler: MGI	

Comments: 2 PS, 2 ES, 1 PP

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	5	<100		
	~~2~~	~~100-200~~		
ES	2	100-200		
GC	3	<90mm		
SS	2	70-120		
decorator crab	1			
PI				
coonstripe shrimp	5			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3E
Retrieval time: 13:22	Start coordinates: X: Y:
Collection method/Effort#: TR 81	
Weather: mostly cloudy, ~73°	End coordinates: X: Y:
Sampler: MGL	

Comments: 1 ES, 3 PP, 3 PS, ~~1 SS~~, 2 SF

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
snake prickleback	1	30 C		
~~PP~~				
SS	11+104 (125)	70-145		
~~PS~~				
ES	3+4	<100		
	1	155		
SF	3	100-200		
	7	<100		
Tom Cod	1	90		
mysid shrimp	4			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3E
Retrieval time: 14:01	Start coordinates: X: Y:
Collection method/Effort#: TR 82	
Weather: mostly cloudy, ~73	End coordinates: X: Y:
Sampler: MGL	
Comments: 4 PS, 3 PP	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
GC	3	< 90mm		
PS	4	< 120		
~~Tom cod~~ longfin smelt	1	125		
SS	137	70-140		
SF	11	<100		
	2	100-200		
Tom cod	1+2 (3)	130		
ES	1+1 (2)	100-200		
	2	<100		
mysid shrimp	2+1			
smoothhead ~~ink~~ sculpin	1	55		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 09/02/2004	Sampling area: 3F
Retrieval time: 14:35	Start coordinates: X: Y:
Collection method/Effort#: TR83	
Weather: mostly cloudy	End coordinates: X: Y:
Sampler: MGC	

Comments: 1SP, 1SF, 1PS

(PS had partly digested 135mm SS in gullet)

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
ES	1	100-200		
~~mysid shrimp~~	~~2~~			
~~striped sea perch (rockper)~~				
~~SC~~ slender crab	2			
mysid shrimp	3+2 (5)			
SS	69	72-130		
~~#~~PS	1	120		
SF	12	<100		
	7	100-200		
Tom cod	(1) ~~125~~	125		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4D
Retrieval Time: 8:17		Start coordinates	X:
Collection method/Effort #: TR 84			Y:
Weather: cloudy ~65		End coordinates	X:
Sampler: MGC			Y:
Comments: no target sp			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	20			
PS	2	<100		
Mysid shrimp	1			
SF	16	<130		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4 D
Retrieval Time: ~~8:17~~ 8:32		Start coordinates	X:
Collection method/Effort #: TR 85			Y:
Weather: Mostly Cloudy ~60		End coordinates	X:
Sampler: MGC			Y:
Comments: 5 SF			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SF	420, 21, 80	< 200		
SS	100			
Shad	~~40~~ 1	140		
Coastal smelt	8	—		
PS	29			

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A
Retrieval Time:		Start coordinates	X:
Collection method/Effort #: TR 86			Y:
Weather: Pt Cloudy ~65, light wind		End coordinates	X:
Sampler: MGL			Y:
Comments: 3 PS, 1 ES, 2 SF SP-1			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SS	110			
TOMCOD	3			
ES	1	<100		
SF	9 42	100-200 <100		

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A
Retrieval Time: 9:42		Start coordinates	X:
Collection method/Effort #: TR 87			Y:
Weather: pt Cloudy ~65 Light wind		End coordinates	X:
Sampler: MGL			Y:
Comments: 9PS, 1ES, ~~7C~~ 3SF			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
GC	4	~~65~~		
Smoothhead	~~8~~ 4	60-130		
~~Northern~~				
PS	3	60-130		
Mysid	5			
Coonstripe	1			
E.S	7	<100		
SS	100			
shad	1			
SF	20 / 17	<100 / 200-100		
tomcod	5			
Longfin smelt	10			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A in channel
Retrieval Time: 10:19		Start coordinates	X:
Collection method/Effort #: TR 88			Y:
Weather: Mostly Sun ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: ~~SF~~, PS 2, 5ES			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SF	~~15~~ 13	<100		
	15	100-200		
SS	150			
tomcod	7			
longfin smelt	3			
PS	5			
ES	9	<100		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A
Retrieval Time: ~~7R89~~		Start coordinates	X:
Collection method/Effort #: 7R 89			Y:
Weather:		End coordinates	X:
Sampler: MGL			Y:
Comments: 2 ES			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
ES.	~~87~~ 2	<100 100-200		
Sand sole				
smelt	11			
tomcod	6			
PS	~~4~~			
SF	5, 30 ~~10~~	<100 100-200	+ 4 (>200)	
Macoma	1			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4B
Retrieval Time: 11:00		Start coordinates	X:
Collection method/Effort #: TR 90			Y:
Weather: Mostly sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: GES,			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
SF	16	<100		
	2	100-200		
smelt	21			
tomcod	12			
PS	2	>200		
	11	~~150~~ 110-150		
SF	35	100-200		
	24	~~100-200~~ <100		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4A
Retrieval Time: 11:27		Start coordinates	X:
Collection method/Effort #: 7R 91			Y:
Weather: Mostly sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: 5ES.			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
C fin smelt	6			
tomcod	8			
SF	~~20~~ 24	<100		
	42	100-200		
	7	>200		
ES	5	<100		
SS	100			
Gracilis	1	<90		
PS	3	<150		
	3	>150		

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	4/B channel
Retrieval Time: 11:52		Start coordinates	X:
Collection method/Effort #: TR 92			Y:
Weather: mostly sunny		End coordinates	X:
Sampler: MGL			Y:
Comments: 9 ES, 2 PP			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
tomcod	4			
C of smelt	6			
~~SF~~ ES	18	<100		
	2	100-200		
SS	128			
SF	17	<100		
	25	100-200		
	2	>200		
PS	3	>150		
	5	<130		
mysid	1			
shender crab	1	<90		

Wind Ward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	SB
Retrieval Time: 12:55		Start coordinates	X:
Collection method/Effort #: TR 93			Y:
Weather: Mostly Sunny ~ 70		End coordinates	X:
Sampler: MGL			Y:
Comments:			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Gracilis	1			
SS	30			
SF	6	<100		
	1	100-200		
Sandsole	1	<100		
mysid	6			

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FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3B
Retrieval Time: 1113		Start coordinates	X:
Collection method/Effort #: R94			Y:
Weather: sunny ~70		End coordinates	X:
Sampler:			Y:
Comments: 1 ES			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
ES	2	<100		
	1	100-200		
gracilis	5			
SF	4			
	5			
SS	15			
tomcod	1			

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	3B
Retrieval Time: ~~TR 95~~ ~~1:25~~ 1:31		Start coordinates	X:
Collection method/Effort #: TR 95			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MLV			Y:
Comments: PP-7, PS-1			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Armena	~~2~~ 1			
SS	20			
ES	2, 2	<100		
ST	2	<100		
tomcod	1			
Crangon	2			
gracilis	1			
~~PS~~	~~1~~			

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/3/04		Sampling area:	30
Retrieval Time: 1:53		Start coordinates	X:
Collection method/Effort #: TR 96			Y:
Weather: Sunny ~70		End coordinates	X:
Sampler: MGL			Y:
Comments: ES			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Longfin smelt	3			
tomcod	6			
SF	38	0-100		
	8	100-200		
SS	40			
ES	10	<100		
PS	20	<130		

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3B in channel
Retrieval Time: 7:50		Start coordinates	X:
Collection method/Effort #: 4 R 97			Y:
Weather: Sunny ~60		End coordinates	X:
Sampler: MGW			Y:
Comments: 2 Ps			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Coonstripe	3			
Seaperch	1			
lingcod	2	140		
SF	2	<100		
SS	42			
ES	1	100-200		
Gracilis	3			
PP	16	<200		

Windward environmental LLC

FORM B.5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 9/7/04		Sampling area:	3B channel
Retrieval Time: 8:04		Start coordinates	X:
Collection method/Effort #: TR 98			Y:
Weather: sunny ~65		End coordinates	X:
Sampler: MGC			Y:
Comments: 1 ES, 1 GC			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
PP	1			
SS	5			
SF	3	<100		
	1			
"Northern" Sculpin	1			
ES	2			
	1			
gracilis				
PS	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: Area 3B channel
Retrieval time: 8:20	Start coordinates: X: Y:
Collection method/Effort#: TR 99	
Weather: Sunny ~ 68	End coordinates: X: Y:
Sampler: MBG	
Comments: 1 ES,	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	45			
longcod	1			
PS	1			
SE	1	<100		
	1	100-200		

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3D channel
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort#: TR 100	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler: MGC	

Comments: No target sp

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	1			
3 spine stickleback	3			
Coonstripe shrimp	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3d (channel)
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort#: TR101	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MBL	

Comments:

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Cyanea jelly	1			
tomcod	1			
SS	3			
SF	2	100-200		
Mysid	1			

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3F
Retrieval time: 9:32	Start coordinates: X: Y:
Collection method/Effort#: TR 102	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler:	

Comments: 1 PP, 2 PS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Gracilis	2	<70		
PP		<100		
SF	8	<100		
	2	100-200		
SS	18			
ES	1	<100		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3F in channel
Retrieval time: 9:52	Start coordinates: X: Y:
Collection method/Effort#: TR 103	
Weather: Sunny 20°	End coordinates: X: Y:
Sampler: MBL	

Comments: 1 ES, PP

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	1 ~~3~~ 1			
Longfin smelt	1			
Tomcod	2			
Gravlis	1			
ES	1	7 100-200		
SJ	40			

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3F channel
Retrieval time: 10:12	Start coordinates: X: Y:
Collection method/Effort#: TR 104	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MBC	
Comments: GC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Longfin	1			
ES	4			
PS	1			
SS	30			
Gracilis	1			
PP	3			
SF	3	<100		
	2	100-200		

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: YA
Retrieval time:	Start coordinates: X: Y:
Collection method/Effort#: TR 105	
Weather: sunny ~70	End coordinates: X: Y:
Sampler: MGW	
Comments: 1 PS	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Tom Cod	2			
SS	11			
SF	~~6~~ 1	<100 / 100-200		
~~PS~~				
Sea Pen	1			
Myo A	3			
PP	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: L/A channel
Retrieval time: 10:43	Start coordinates: X: Y:
Collection method/Effort#: TR 106	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MGL	

Comments: NO keepers

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
GC	2	<90		
L. bellus (blk cuf)	1			
tomcod	2			
SS	4			
ES	1			

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: ~~TR107~~ 4A shoulder
Retrieval time: 11:00	Start coordinates: X: Y:
Collection method/Effort#: TR107	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MBL	

Comments: none

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	9	<100		
SF	6	100-200		
	1	>200		
SG	31			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 4B shoulder
Retrieval time: 11:15	Start coordinates: X: Y:
Collection method/Effort#: TR 108	
Weather: Sunny ~70°	End coordinates: X: Y:
Sampler: MGL	

Comments:

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	15			
SF	6	<100		
	1	>200		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3B
Retrieval time: 11:26	Start coordinates: X: Y:
Collection method/Effort#: TR 109	
Weather: Sunny ~ 70°	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 PP, 1 PS	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SS	10			
gracilis	1			
ES	1	<100		
SP	1	<100		
	1	100-200		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3F channel
Retrieval time: 11:52	Start coordinates: X: Y:
Collection method/Effort#: TR 110	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler: MGC	

Comments: 2DC, 5PP, 3PS, 7ES

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Tomcod	2			
3F	~~4~~	<100		
	7	100-200		
ES	14,15	<100		
	3,5	100-200		
PP	6	<200		
PS	13	<150		
Slender				
3F	1	>200		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/7/04	Sampling area: 3F channel
Retrieval time: 13:10	Start coordinates: X: Y:
Collection method/Effort#: TR 111	
Weather: Sunny ~70	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 PP, 2 PS,	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
ES	5	<100		
PP	5			
~~[illegible]~~				
Tomcod	10			
Herring	1			
Gracilis	1			
PS	3 ~~4~~	<150		
SS	43			
SF	1	>200		
	4	100-200		
SF	4	<100		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 3 D channel
Retrieval time: 1333	Start coordinates: X: Y:
Collection method/Effort#: TR 112	
Weather: Sunny ~75	End coordinates: X: Y:
Sampler: MGL	
Comments: 2PP, 1 DC	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Sea Pens	3			
Anemone	1			
SS	3			
SF	1			
PP	2			
Tomcod	5			
Coonstripe	2			
Mysid	1			
PS	8			
gracilis	4			
Black Clawed crab	1			
Kelp crab (Oregonia gracilis)	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/2/04	Sampling area: 3D channel
Retrieval time: 14:09	Start coordinates: X: Y:
Collection method/Effort#: TR 113	
Weather: Sunny ~75	End coordinates: X: Y:
Sampler: MGC	

Comments: 1 ES, 6 PP, 1 PS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Anemone	1			
Sea Pen	1			
SF	2	>200		
SP	1	<100		
tomcod	7 ~~6~~ 8			
Herring	1			
Hybrid sole	1			
hermit crab	1			
gracilis	8			
SS	23			
PP	13			
northern	1			
PS	2			
Coonstripe shrimp	13			
mysid	1			
ES	1	<100		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/7/04	Sampling area: 1 D
Retrieval time: 14:55	Start coordinates: X: Y:
Collection method/Effort#: TR114	
Weather: Sunny ~ 75	End coordinates: X: Y:
Sampler: MGL	

Comments: ~~SS~~, 2 PS

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Evasterias (mottled starfish)	1			
Rock sole	1	~ 200		
Sunflower star	1			
Gracilis	7			
~~SS~~				
SS	1	75		
Coonstripe	5			
mysid	1			
~~the~~ decorator crab (Oregonia)				

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 1D channel
Retrieval time: 14:55	Start coordinates: X: Y:
Collection method/Effort#: TR115	
Weather: Sunny ~75	End coordinates: X: Y:
Sampler: MGL	

Comments: 1ES, 1DC, 1PP, 4PS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SF	1	470		
Sunflower star	2			
Snake Prickleback	5			
~~Cabezon~~ great Sculpin	1	~400		
Dorid nudibranch	13			
Anemone (Aiptasia sp)	1			
tomcod	3			
gracilis	15,1	<90		
ES	1	<100		
Rocksole	2	160, 220		
Myoid	1			
PS	1	<120		
~~"Northern"~~ Sculpin	3			Later ID'd as prickly Sculpin MGL 12/2/04

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 2 E
Retrieval time: 8:00	Start coordinates: X: Y:
Collection method/Effort#: 7R116	
Weather: Sunny ~60	End coordinates: X: Y:
Sampler: MGC	

Comments: 1ES, 4PS, 8SS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
DC	1	<90		
C gracilis	7	<90		
Snake Prickleback	2			
tomcod	8			
ES	3	<100		
	1	100-200		
SF	1	100-200		
	1	>200		
PP	6	<180		
Seaperch	2			
mysid	1			
PS	1	<120		
SS	25	<80		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/8/04	Sampling area: 1 E channel
Retrieval time: 8:27	Start coordinates: X: Y:
Collection method/Effort#: TR117	
Weather: Sunny ~60°	End coordinates: X: Y:
Sampler: MGC	

Comments: 2 SC, 3 SS, 1 ES, 1 PP

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
SS	12			
tomcod	4			
Seapen	1			
SC ~~SC~~ ~~Sted~~	1			
Evasterious	1			
Pisaster	1			
SF	1	<100		
	4	100-200		
ES	3	<200>100		
Surf smelt	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 2F edge of channel
Retrieval time: 8:48	Start coordinates: X: Y:
Collection method/Effort#: +R 118	
Weather: Sunny ~60	End coordinates: X: Y:
Sampler: MGC	

Comments: 2 PP, 1 SC, 4 PS, 3 SS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Rock Sole	1	~200		
decorator Crab (Oregonia sp.)	1			
Herring	25			
tomcod	3			
tritonia nudibranch	1			
Aeolidia nudibranch	2			
Mysid	1			
PS	1	<120		
PP	2	<180		
SC	5			
SS	10	<80		
SF	1	100-200		
	9	<100		
ES	1	100-200		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 2 F channel
Retrieval time: 9:21	Start coordinates: X: Y:
Collection method/Effort#: TR119	
Weather: Sunny ~ 65	End coordinates: X: Y:
Sampler: MBL	

Comments: 1SC, 5SS, 1PS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
PP	~~X~~ 3			
SF	1	100-200		
SC	5			
ES	2	100-200		
"Northern" sculpin	1			
Tomcod	~~X~~ 10			
P Herring	3			
SS	6			
Anemone	1			
Armina	1			
sea pen	1			
Evasterias	6			
Pisaster ochraceus	1			
Pisaster brevispinus	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: U/C channel
Retrieval time: 10:02	Start coordinates: X: Y:
Collection method/Effort#: TR 120	
Weather: Sunny ~10	End coordinates: X: Y:
Sampler: MGL	
Comments: GSS	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Pisaster				
Tomcod	6,1,1			
Herring	1			
PS	15	<200		
SS	~100			
SF	100,25	<100		
	11,8	100-200		
SF	2,8	>200		
~~CS~~	~~1~~	~~<100~~		
SF	75	<100		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/7/04	Sampling area: 4Ch
Retrieval time: 10:24	Start coordinates: X: Y:
Collection method/Effort#: 7R121	
Weather: Sunny ~65	End coordinates: X: Y:
Sampler: MGC	

Comments: No keepers

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
~~P Herring~~				
tomcod	8			
PS	5	<150		
shad		~180		
longfin smelt	2			
Cockle	1			
mysid	4			
~~SS~~ SF	94	<100		
	21	100-200		
SS	65			
Snake Prickleback	1			
Roughback Sculpin	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 1B
Retrieval time: 11:16	Start coordinates: X: Y:
Collection method/Effort#: TR 122	
Weather: Sunny ~65	End coordinates: X: Y:
Sampler: MGL	

Comments: 1DC, 1RC

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
SS	4			
Coonstripe	2			
Cockle	1			
Glacilis	5			
Evasterious	1			
SF	2	>200		
Rock sole	1	100-200		
ES	1	100-200		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 1 B channel
Retrieval time: 11:40	Start coordinates: X: Y:
Collection method/Effort#: TR-123	
Weather: Sunny ~65	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 SS, SC 1	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
decorator Crab	1			
mysid				
tomcod	1			
SS	1			
nevdobranch	1			
SC	3			
Coonstripe	3			

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NON

Target Fish and Crab Species Collection Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: 1 D channel
Retrieval time: 12:25	Start coordinates: X: Y:
Collection method/Effort #: TR 124	
Weather: Pt cloudy ~ 65	End coordinates: X: Y:
Sampler: MGC	
Comments: 1 RF, 1 PS, 1 SS	

species ~~SPECIMEN ID #~~	Count ~~LENGTH~~ (nearest mm)	length ~~WEIGHT~~ (nearest 0.5 g)	GENDER	COMMENTS*
ES	3	<100		
SC	3	<90		
PP	<	80		
Coonstripe shrimp	63, 41			
Tomcod	1			
Buffalo Sculpin	1	~130		
tubesnout	1	~130		
Eurysterious	1			
SS	2	<80		
Mysid	1			
SS	2	<80		
decorator crab	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: Edge of channel 1A
Retrieval time: 1301	Start coordinates: X: Y:
Collection method/Effort#: TR 125	
Weather: Pt Cloudy ~65	End coordinates: X: Y:
Sampler: MGL	

Comments: 4 SS, 1 PS, 1 ES (No pigment on caudal peduncle)

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Kelp crab (Pugettia producta)	2,1			
oregonia decorator crab	2			
(L. bellus) blk clawed crab	1			
PP	2	<80		
tomcod	2,1			
Coonstrip	1			
Rock sole	3			
SC	3	<90		
ES	1	<200		
Sunflower star	2			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/8/04	Sampling area: IC
Retrieval time: 1:27	Start coordinates: X: Y:
Collection method/Effort#: TR 126	
Weather: Pt cloudy ~65	End coordinates: X: Y:
Sampler: MGL	

Comments: 5DC, 1RC, 2ES, 2PS, 5SS

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Pisnapedra (Sunflower star	1			
Sea Pen	1			
Sand sole	1	>300		
Rock Sole	7,5	150-~250		
PP	1			
tomcod	12			
SC	4			
SS	3	<8		
~~SS~~	~~5~~	~~>8~~		
snake prickleback	1			
ES	5	<20		
~~ES~~	~~2~~	~~>20~~		
mysid	1			
~~PS~~	~~2 8~~	~~bag (lost one)~~		
PS	2	release (too small)		
seaper	1			
anemones	5			

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Non-Target Species Tally Form

✓ FM

Project Name: LDW RI Fish and crab chemistry

Project #: 04-08-06-22

Date: 8/2/04

Retrieval time: 1645

Collection method/Effort#: beach seine set 1 moved 12/2/04

Weather: overcast

Sampler: JMF + Taylor

Comments:

Sampling area: ~~2B~~ 2A

Start coordinates: X: 122 19.183 W Y: 47 31.898 N

End coordinates: X: 122 19.194 Y: 47 31.911

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
chinook	3	105, 110, 111	—	—
3 spine stickleback	1	55		

✓ FM

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 3D
Retrieval time: 1145	**Start coordinates:** X: 122 18.915 W; Y: 47 31.829 N
Collection method/Effort#: beach seine	
Weather: overcast	**End coordinates:** X: 122 18.911 W; Y: 47 31.824 N
Sampler: JMF + Taylor	

Set 2 12/2/04

Comments: just north of South Park bridge on East side of LDW in front of yellow/offwhite building

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
chinook	5	105, 109, 103 104, 111	—	
torridsculpin	2	120, 80		
stickleback	23	70, 72, 69 75, 73		avg length
gunnel	1	110		

Windward environmental LLC

Non-Target Species Tally Form

FM

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/2/04	**Sampling area:** 3F
Retrieval time: 1210	**Start coordinates:** X: 12218.652 Y: 4731.672
Collection method/Effort#: beachseine get 3	
Weather: overcast w/ sun breaks MGL 12/2/04	**End coordinates:** X: 12218.644 Y: 4731.672
Sampler: JMF + Taylor	

Comments:

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
3 spine stickleback	24	60-100mm		
starry flounder	11	5-7cm	—	—
shiner perch	71	<8cm	—	—
~~starry flounder~~	~~11~~	~~<20cm~~		
~~torrid~~ sculpin torrent	4	60, 30, 50 + 75	—	—

FM

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/2/04	Sampling area: 4E-Set 4
Retrieval time: 1340	Start coordinates: X: 122 17.861 W
Collection method/Effort#: beach seine Set 4	Y: 47 30.715 N
Weather: Sunny	End coordinates: X: 122 17.850 W
Sampler: JMF + Taylor	Y: 47 30.712 N

Comments: On East side of river in front of Norfolk CSO

LDW-T4-E-SN004

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
shiner perch	34	<8cm	—	
3 spine stickleback	1	60mm		
starry flounder	25	<20cm	—	
staghorn sculpin	5	<10cm		
torrid sculpin	5	<10cm		

✓ PM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/03	Sampling area: 1B
Retrieval time: 1005	Start coordinates: X: 122 20.755 N
Collection method/Effort#: beach seine Set 6	Y: 47 33.971 W
Weather: overcast, light rain	End coordinates: X: 122 20.757 N
Sampler: JMF + Taylor	Y: 47 33.955 W
Comments:	

LDW-T1-B-SN006

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
~~Chinook~~ Coho salmon	1	95		
Stickleback (3spine)	4	~55		
Herring	1	75		

✓ FM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1B
Retrieval time: 1035	Start coordinates: X: 122 20.773 W
Collection method/Effort#: beach seine Set 7	Y: 47 33.891 N
Weather: over cast	End coordinates: X: ~~122 20~~ NA
Sampler: JMF + Taylor	Y: NA

Comments:

current too strong to pull in seine

LDW-T1-B-SN007

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments

✓ PM

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1D
Retrieval time: 1056	Start coordinates: X: 122 20.679 W
Collection method/Effort#: beach seine/set 8	Y: 47 33.662 N
Weather: sunny w/ some clouds	End coordinates: X: 122 20.669 W
Sampler: JMF + Taylor	Y: 47 33.641 N
Comments:	

LDW-T1-D-SN008

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
herring	~800	60-80	—	
chinook	1	113	—	
3spine stickleback	1	45	—	

✓ FM

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 1B
Retrieval time: 1120	Start coordinates: X: 1220.742
Collection method/Effort#: beachseine/set 9	Y: 4733.818
Weather: sunny/partially cloudy	End coordinates: X: 1220.728
Sampler: JMF, + Taylor	Y: 4733.803
Comments:	

LDW-TI-B-SN009 1

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner perch	44	<8cm		
chinook	1	105		
starry flounder	2	~~80~~ <10cm		
coho	3	118, 95, 108		
herring	4			
staghorn sculpin	2	<10cm		
sandlance	1			
3spine stickleback	3			

✓ PM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 2 B
Retrieval time: 1225	Start coordinates: X: 122 20.182 W / Y: 47 32.720 N
Collection method/Effort#: beach seine / set 10	
Weather: partially cloudy	End coordinates: X: 122 20.184 W / Y: 47 32.709
Sampler: JMF + Taylor	

Comments: beach south of the mouth of slip between 2 loading docks

LDW-T2-B-SN010

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner perch	2	<8cm		
sculpin	2	<10cm		

✓ FM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 2B
Retrieval time: 1245	Start coordinates: X: 122 20.181 W Y: 47 32.694 N
Collection method/Effort#: beach seine / set 11	
Weather: sunny partially cloudy	End coordinates: X: 122 20.184 W Y: 47 32.684 N
Sampler: JMF + Taylor	
Comments:	

LDW-T2-B-SN011

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
starry flounder	3	<10cm		
shiner perch	28	<8cm		
staghorn sculpin	1	<10cm		
gunnel	1			
chinook	4	100, 102, 98, 110		

✓ FM

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/3/04	Sampling area: 3C
Retrieval time: 1335	Start coordinates: X: ~~122 31.755 N~~, 122 18.908
Collection method/Effort#: seine/set 12	Y: ~~47 31.~~ 47 31. ~~906~~ 756
Weather: partial clouds	End coordinates: X: 122 18.937
Sampler: JMF + Taylor	Y: 47 31.770

Comments:

LDW-T3-C-SN012

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner perch	54	<8cm		
stickleback (3 spine)	2	<10cm		
starry flounder	1	<20cm		
sculpin-Staghorn	4	<10cm		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 4C
Retrieval time: 1425	Start coordinates: X: 122 18.124 Y: 47 30.726
Collection method/Effort#: beachseine/set 13	
Weather: Sunny	End coordinates: X: 122 18.136 Y: 47 30.720
Sampler: JMF & Taylor	
Comments:	

LDW-T4-C-SN013

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shinerperch	587	<8 cm	—	
staghorn sculpin	11	<10cm	—	
chinook	3	110, 109, 120	—	
Starry flounder	4		—	
3 spine Stickleback	5		—	

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 8/3/04	Sampling area: 34C
Retrieval time: ~~30~~ 1500	Start coordinates: X: Y:
Collection method/Effort#: beach seine/set 14	
Weather: sunny	End coordinates: X: Y:
Sampler: Joann + Taylor	
Comments:	

LDW-T4-C-SN014

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Shiner perch	813	<8cm		
stag horn sculpin	2	<10cm		
chinook ~~m~~	3	105, 108 125		
3 spine stickleback	2	—		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 1350	Start coordinates: X: Y:
Collection method/Effort#: BL CT 1	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	

Comments: 6DC, 1SC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 1403	**Start coordinates:** X: Y:
Collection method/Effort#: BL CT 2	
Weather: Cloudy ~60	**End coordinates:** X: Y:
Sampler: MGL	

Comments: 7 DC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 1410	**Start coordinates:** X: Y:
Collection method/Effort#: BLCT 3	
Weather: Cloudy ~60	**End coordinates:** X: Y:
Sampler: MBL	
Comments: 4 DC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
None				

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 14:14	Start coordinates: X: Y:
Collection method/Effort#: BLCT 4	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	

Comments: 1 DC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
None				

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 14:25	Start coordinates: X: Y:
Collection method/Effort#: BLCT 5	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	

Comments: 5 DC, 3 SC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	2			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 1428	Start coordinates: X: Y:
Collection method/Effort#: BL CT6	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 DC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/09	Sampling area: Blake Island
Retrieval time: 1433	Start coordinates: X: Y:
Collection method/Effort#: BL CT 7	
Weather: Cloudy	End coordinates: X: Y:
Sampler: MGL	

Comments: 1 DC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 14:37	Start coordinates: X: Y:
Collection method/Effort#: BL CT8	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGC	

Comments: no keepers

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
RR	5			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 14:35	Start coordinates: X: Y:
Collection method/Effort#: BC CT9	
Weather: cloudy ~60	End coordinates: X: Y:
Sampler: MbL	
Comments: 3 DC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
~~3~~ RR	5			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 14:41	Start coordinates: X: Y:
Collection method/Effort#: BL CT 10	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	

Comments: No keepers

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SC	1	<90		
RR	4			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 14:45	**Start coordinates:** X: Y:
Collection method/Effort#: BL CT11	
Weather: cloudy ~60	**End coordinates:** X: Y:
Sampler: MGL	

Comments:

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	4			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 14:48	**Start coordinates:** X: Y:
Collection method/Effort#: BLCT 12	
Weather: Cloudy ~60	**End coordinates:** X: Y:
Sampler: MGL	

Comments: 1 DC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	6			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/14/04	Sampling area: BL - TR-1
Retrieval time: 10:32	Start coordinates: X: Y:
Collection method/Effort#: BL-TR-1	
Weather: Sunny (PT Cloudy) ~ 62°	End coordinates: X: Y:
Sampler: MGC	

Comments: ES-1

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Slender Crab	15♀			
"	20♂			
Sand sole	19			
Sandlab	3	11.5-90		
PS	2	9, 11.5		
Rock Sole	3	230-310		
Starry flounder	1	400		
Rockfish	1	430	♂	
Red Rock Crab				
Pisaster sp	1			
Anemone	~~3~~ 4			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/14/04	Sampling area: Blake Island
Retrieval time: 11:09	Start coordinates: X: Y:
Collection method/Effort#: BL-TR2	
Weather: Pt Cloudy ~65	End coordinates: X: Y:
Sampler: MEL	
Comments: No kupers	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Octopus				
Sea Cucumber				
Ratfish	4,1,1			
Sea Cucumber				
PS	1	265		
shrimp (~~Coonstripe~~ Dock shrimp)	23			Positively ID'd
Rock sole	3	~300		
Speckled Sanddab	1,1	103		
hermit crab	2			
Sand sole		~100		
Anemone	2			
Sea Cucumber	2			
Sunflower star	1			
brittle star	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 11:40	**Start coordinates:** X:
Collection method/Effort#: BL - TR3	Y:
Weather: Pt. Cloudy	**End coordinates:** X:
Sampler: MGL	Y:

Comments: ES -4,

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Rock sole	4, 1	230, 310 ~250, 150		
Roughback sculpin	1	~120		
PS	1	130		
Sandab	2, 1	10.5 - 130		
SC	1			
mysid				
Mediaster (vermillion seastar)	1			
Grangon shrimp	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 12:17R4	**Start coordinates:** X: / Y:
Collection method/Effort#: BL-TR4	
Weather: Pt cloudy ~65	**End coordinates:** X: / Y:
Sampler: MGL	
Comments: ES-3	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
tomcod	2			
Anemone	2,2			
Sunflower Star	1			
PS	1	~165		
Rock sole	4	~300, 320 136-350		
Sand sole	1	350		
E.S	1	110		
speckled sandab	2	~100		
Brittle Star	1			
Moon Jelly	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/14/04	**Sampling area:** Blake Island
Retrieval time: 12:47	**Start coordinates:** X: Y:
Collection method/Effort#: BL-TR-5	
Weather: Pt Cloudy ~ 65	**End coordinates:** X: Y:
Sampler: MGL	

Comments: 37SS, 42ES, 2DC, +12 ES

ES (91) 250-130mm Thrown back

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Octopus	1			
Sand sole	~~IIII~~ III	150 -500		
~~Brown Rockfish~~				
Hake	3	100-250		
Rock sole	1, 10			
Plainfin Midshipman	1	~150		
Anemone (Metridium Senile)	1 1,2			
Vermilion star	2			
Brown Rockfish	2	~110		
tomcod	3	~150		
Herring	1	~200		
flathead sole	1, 1,4,1,1,1	170, 220-295		
dover sole	4	140-150		
P. Sandab	2	280		
~~PS~~	~~2~~	~~~150~~		
cuttlefish	1			
Roughback sculpin	2	110-140		
Blackbelly eelpout	5	170-240		
P.S	2	200-120		
Squid	1			
Longnose skate	1		♂	
Dock shrimp	4			

Red Rock Crab ♀ (1)

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: Blake Island
Retrieval time: 10:34	Start coordinates: X: / Y:
Collection method/Effort#: BL - ST-1	
Weather: cloudy ~60	End coordinates: X: / Y:
Sampler: MBL	

Comments: No keepers

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	1			
PS	2	~180 ~300		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: Blake Island
Retrieval time: 10:37	Start coordinates: X: Y:
Collection method/Effort#: BL-ST-2	
Weather: Cloudy ~60.	End coordinates: X: Y:
Sampler: MGL	

Comments: no keepers

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
RR	1			♂

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: Blake Island
Retrieval time: 10:39	Start coordinates: X: Y:
Collection method/Effort#: BC-5t-3	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	

Comments: No keepers

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
~~RR~~	~~1~~			~~0~~
PS	1	~150		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/16/04	**Sampling area:** Blake Island
Retrieval time: 10:42	**Start coordinates:** X: Y:
Collection method/Effort#: BL-ST-4	
Weather: cloudy ~60°	**End coordinates:** X: Y:
Sampler: MGL	
Comments: 1 SC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SC		<90		
RR	1			
DC	1	<90		
PS	1	270		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: Blake Island
Retrieval time: 10:47	Start coordinates: X: / Y:
Collection method/Effort#: BL-ST-5	
Weather: Cloudy ~60.	End coordinates: X: / Y:
Sampler:	

Comments: 4 SC

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
PS	2			
RR	1			Ok

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: Blake Island
Retrieval time: 10:51	Start coordinates: X: Y:
Collection method/Effort#: BL-ST-6	
Weather: Cloudy ~60	End coordinates: X: Y:
Sampler: MGL	
Comments: 1 SC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
NONE				

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: EP
Retrieval time: 16:20	Start coordinates: X: / Y:
Collection method/Effort#: CT01	
Weather: Rain	End coordinates: X: / Y:
Sampler: MGL	
Comments: IDC	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Luidia (sea star)	1			

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	Project #: 04-08-06-22
Date: 9/16/04	Sampling area: EP
Retrieval time: 16:30	Start coordinates: X: / Y:
Collection method/Effort#: CT02	
Weather: Rain	End coordinates: X: / Y:
Sampler: MGC	
Comments: ND Keepers	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Sunflower star				
vermilion star				

Wind Ward environmental LLC

Non-Target

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09/16/04		Sampling area:	EP
Retrieval Time: 16:38		Start coordinates	X:
Collection method/Effort #: CT 03			Y:
Weather: Rain		End coordinates	X:
Sampler: MGL			Y:
Comments: No target species collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09/16/04		Sampling area:	EP
Retrieval Time: 16:40		Start coordinates	X:
Collection method/Effort #: CT04			Y:
Weather: Rain		End coordinates	X:
Sampler: MGL			Y:
Comments: 7 DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

Windward environmental LLC

FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09/16/04		Sampling area:	EP
Retrieval Time: 16:[illegible]		Start coordinates	X:
Collection method/Effort #: CT 05			Y:
Weather: Rain		End coordinates	X:
Sampler: MGL			Y:
Comments: 4 DC			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS
TA				

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FISH AND CRAB TISSUE COLLECTION FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 09/16/04		Sampling area:	EP
Retrieval Time: 16:35		Start coordinates	X:
Collection method/Effort #: CT 10			Y:
Weather: Rain		End coordinates	X:
Sampler: MGL			Y:
Comments: No target Species Collected			

SPECIMEN ID #	SPECIES	LENGTH (nearest mm)	WEIGHT (nearest 0.1 g)	COMMENTS

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/16/04	**Sampling area:** East Passage
Retrieval time: 13:29	**Start coordinates:** X: Y:
Collection method/Effort#: EP TR1	
Weather: Cloudy ~65	**End coordinates:** X: Y:
Sampler: MGC	

Comments: SS-1, DC-3, SC-1, ES48

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Vermillion star	60			
Sunflower star	1			
Metridium senile	14, 16, 10			
Evasterious	1			
Rock sole	~~22~~ ~~23~~ 26, 11			
Dover sole	1			
C-O Sole	~~1~~ ~~1~~ 3			
P. Sanddab	5, 20, 50			
Plainfin Midshipman	7	115 - 230		
PS	3	150-220		
Roughback sculpin	~~8~~ 9	95-150		
Sturgeon Poacher	2	100-130		
E.S.	70	<200		

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Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/11/04	**Sampling area:** EP
Retrieval time: Start 14:23 – End 14:28	**Start coordinates:** X: Y:
Collection method/Effort#: EP-TR-2	
Weather: Rainy ~62.	**End coordinates:** X: Y:
Sampler: MLL	

Comments:

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
Sea Cucumber	2			
Anemone	3			
Sunflower Star	1			
RR	1	~120		Ok
E.S.	6	<100		
P. Sandlab	5	<100		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/16/04	**Sampling area:** East Passage
Retrieval time: 12:47 - 14:58	**Start coordinates:** X: Y:
Collection method/Effort#: EP-TR-3	
Weather: Rainy ~60	**End coordinates:** X: Y:
Sampler: MGL	

Comments: 3-5S, 5ES

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
? Tomcod	78,2			
Ratfish	1			
Anemone	11			
Evasterias spinosa	2			
spot shrimp	1			
nudibranch sp				
cuttlefish	2			
Plainfin Midshipman	13			
Rockweed	2			
Sturgeon Poacher	5	125-195		
Rex Sole	7	130-230		
P. Sanddab	1			
vermillion star	6			
Sunflower star	1			
E. S.	11			
Spiny dogfish	1	~600		

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/16/04	**Sampling area:** East Passage
Retrieval time: 15:23 to 15:31	**Start coordinates:** X:
Collection method/Effort#: ~~TR 4~~ EP-TR-4	Y:
Weather: Sprinkles	**End coordinates:** X:
Sampler: MGL	Y:

Comments: 1 SS, 1 SP

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Ratfish	2			
Anemone	7			
Roughback Sculpin	16	90-150		
Sailfin Sculpin	3	80-150		
E.S.	14			
vermillion Star	7			
~~Evasterion~~ hippasteria spinosa	2			
Brown Rockfish	1	~150		
Sunflower star	2			
~~Northern Ronquill~~	~~2~~			
Solaster ~~dos~~ dawsoni	1			
Northern Ronquill	2	180-210		
Spot shrimp	2			
Rock Sole	16			
Crossaster pappusus	1			
Sanddab	11			
Solaster Stimpsoni	1			

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/17/04	**Sampling area:**
Retrieval time: 10:05	**Start coordinates:** X:
Collection method/Effort#: EP-TR-5	Y:
Weather:	**End coordinates:** X:
Sampler:	Y:

Comments:

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
Anemone (M. senile)	7			
Rock sole	X3			
Sea Cucumber	2			
~~Sand dab~~				

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/17/04	**Sampling area:** East Passage
Retrieval time: 10:37	**Start coordinates:** X:
Collection method/Effort#: EP-TR-06	Y:
Weather: Cloudy light sprinkle	**End coordinates:** X:
Sampler: MBL	Y:

Comments: 1 SS

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
English sole	105, 89, 77			
Vermillion star	67			
Hippasteria spinosa				
DC	3		Qx	
Anemone	5, 3, 5			
Sea Cucumber	1			
Midshipman	14			
Moon snail	1			
PS	4			
P. Sanddab	20			
Rockbach sculpin	4			
Sturgeon Poacher	1			
Pygmy poacher	1			
Rock Sole	22			
Para Langon (shrimp)	1			
hermit crab	1			
Rex sole	~~4~~ 1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 8/17/04	**Sampling area:** E.P.
Retrieval time: 11:40	**Start coordinates:** X: Y:
Collection method/Effort#: EP TR 02	
Weather: pt. Cloudy	**End coordinates:** X: Y:
Sampler: MGL	

Comments:

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
CS	91			
Sunflower star	2			
Solaster dawsonii	1			
CO Sole	2			
Cucumber	1			
P. Sanddab	4			
Midshipman	2			
Rock Sole	4			
PS	6			
Roughback Sculpin	7			
vermillion star	20			
Surgeon Poacher	1			
Neudobranch	1			
Hippoglossia spinosa	1			
Crossaster	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/17/04	**Sampling area:** E. P.
Retrieval time: 1219	**Start coordinates:** X:
Collection method/Effort#: EP TR 08	Y:
Weather: Pt Cloudy ~65	**End coordinates:** X:
Sampler: MGL	Y:
Comments: None	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
ES	8, 16, 33			
Metridium Senile	12			
plainfin midshipman	8			
P. Tomcod	4			
Slender sole	2			?
Rock sole	4			
Slender sole	2			
P. Sanddap	3			
Lover sole	1			
Cottlefish	1			
vermillion star	31			
sturgeon Poacher	3			
PS	4			
Roughback Sculpin	4			
Pygmy Poacher	1			
RR	1			Ox
Sea Cucumber	18			
hermit crab				
Solaster star	1			
Hippostenia spinosa (Star)				

cuke- Cucumeria pepperata (~~star~~) 1
Henricia sp (star) 1

P1/2

Wind Ward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/12/09	**Sampling area:** EP (Vashon)
Retrieval time: 1303	**Start coordinates:** X: Y:
Collection method/Effort#: EP TR 09	
Weather: pt cloudy ~65	**End coordinates:** X: Y:
Sampler: MGC	

Comments: 1PP

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
ES	12,36,10			
Anemone	6			
Sunflower star	1			
Rockfish	3			
Brn. Rockfish	3			
Sea Cucumber	3			
RR	1	♂		
~~Crossaster~~ spot (shrimp)				
Solaster dawsoni	1			
Solaster stimpsoni	1			
vermilion star	5			
Plainfin Midshipman	15			
Hippasteria spinosa	1			
Scyra acutifrons (Crab)	1			sharpnose crab
Dock shrimp	~~54~~ 54			
PS	1			
Sturgeon poacher	1			
Striped shrimp	1			
Roughback sculpin	3			
Rd. Rockfish	1			
Solaster sp.	1			
Rock sole	6			

Windward environmental LLC

P2/2

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/17/03	**Sampling area:** EP (Vashon)
Retrieval time: 1303	**Start coordinates:** X:
Collection method/Effort#: EP-TR 09	Y:
Weather: PY Cloudy ~65	**End coordinates:** X:
Sampler: MGL	Y:
Comments: 1 PP	

SPECIES	#	LENGTH RANGE (nearest mm)	TOTAL WEIGHT (nearest 0.5 g)	COMMENTS
C-O sole	1			
Crangon	1			
Dover sole	~~10~~ 11			
nevdobranch	1			
Slender sole	3			
hermit crab	1			
Rock sole	1			
Spiny Crangon	1			
Spiny sculpin	3			
Spiny ~~tebie~~ lettered	1			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 9/17/04	**Sampling area:** EP (Burien)
Retrieval time: 1510	**Start coordinates:** X: Y:
Collection method/Effort#: EP TR 10	
Weather: PT Cloudy ~65	**End coordinates:** X: Y:
Sampler: MBL	

Comments: 3 SS, 1 PP, 1 SC Plus 5 SC Retained 7.5 to 8 cm

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
SC Juveniles	6 0,30	1-2 cm		
Saddleback gunnel	7			
Crescent gunnel	1			
White spotted greenling	1			
DC Juveniles	3,3	1-2 cm		
decorated crab	1			
RR	26	1-3 cm		
RS	6			
Prickly Sculpin	2			

Windward environmental LLC

Non-Target Species Tally Form

Project Name: LDW RI Fish and crab chemistry	**Project #:** 04-08-06-22
Date: 7/17/04	**Sampling area:**
Retrieval time: 16:00	**Start coordinates:** X: / Y:
Collection method/Effort#: EP TR 11	
Weather: Cloudy	**End coordinates:** X: / Y:
Sampler: MBL	
Comments: 1 SC ~ 8.5cm	

Species	#	Length Range (nearest mm)	Total Weight (nearest 0.5 g)	Comments
P. Sanddab				
SC	2	~3cm		

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	BL
Retrieval Time: 1021		Start coordinates	X:
Collection method/Effort #: BL TR-6			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1003			

SPECIES	#	LENGTH (nearest mm)	Count cont'd ~~WEIGHT (nearest 0.5 g)~~	COMMENTS
Anenome	卌 |			
Ratfish	|	400	-	-
English Sole	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌		卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 ||||	
Sand Sole	卌 ||||			
Rock Sole	卌 ||||			
Pacific Sanddab	卌 ||			
Starry flounder	||			
Dover Sole	卌			
C. magister	|||	140 - 185		2♂ 1♀
Plainfin midshipman	||||			
Pacific tomcod (Juvenile)	|||			
Blackbelly Eelpout	|||			
Compsomyax (clam)	|||			
Mediaster	卌			
Squid	|			
Staghorn Sculpin	卌 卌 卌 ||||			

Wind/Ward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	BL
Retrieval Time: 1104		Start coordinates	X:
Collection method/Effort #: BL-TR-7			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1044			

SPECIES	#	LENGTH (nearest mm)	Count Cont'd ~~WEIGHT (nearest 0.5 g)~~	COMMENTS
Anemone	卌 卌 卌 卌 卌 卌 |			
Sunflower star	||			
Ratfish	||			
Sea cucumber	||			
Dogfish Shark	|			
Plainfin midshipman	卌			
Pacific tom cod	|||			
Staghorn Sculpin	||||			
Roughback sculpin	|||			
C. gracilis	|	20		
English sole	卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌 卌		卌 卌 卌 卌 卌 卌	
Sand Sole	卌 ||			
Rock sole	卌 卌 |||			
flathead Sole	||||			
Pacific Sanddab	|			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1327		Start coordinates	X:
Collection method/Effort #: EP-TR-12			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1322			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Slender crab	1	<40		
Spider crab (Pugetia)	𝍸 𝍸 𝍸 𝍸			
Helmet crab	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸			
Red rock crab	1	<40		
Coonstripe shrimp	≈200			
Shiner surfperch	𝍸 𝍸	<70		
Smoothhead sculpin	11			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1412		Start coordinates	X:
Collection method/Effort #: EP-TR-13			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1405			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Coonstripe shrimp	35			
Red rock crab	2	<40		
Slender crab	4	<40		
Helmet crab	6			
Spider crab (Pugettia)	5			
Decorator crab	6			
Bay Pipefish	2			
Smooth head Sculpin	1			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1452		Start coordinates	X:
Collection method/Effort #: EP-TR-14			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1439			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Anemone	𝍸 𝍸 𝍸 I			
Plainfin midshipman	I			
Sturgeon Poacher	I			
Roughback Sculpin	𝍸 III			
Mediaster	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸			
misc. seastars	IIII			
English Sole	II			
Rock Sole	𝍸 III			
Pacific Sanddab	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 IIII			
Slender crab	II	<40		
Decorator crab	I			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1518		Start coordinates	X:
Collection method/Effort #: EP-TR-15			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment time 1510			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Rock Sole	1			
C-O Sole	1			
Coonstripe Shrimp	≈120			
Bay pipefish	𝍸 𝍸 𝍸 𝍸			
Helmet crab	𝍸 𝍸 𝍸 𝍸			
Spider crab (Pugetia)	𝍸 𝍸 𝍸 𝍸 𝍸			
Slender crab	𝍸	<40		

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1537		Start coordinates	X:
Collection method/Effort #: EP-TR-16			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1530			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Spider crab (Pugettia)	𝍸 I			
Helmet crab	𝍸 𝍸			
Bay pipe fish	II			
Slender crab	𝍸	<40		
Red rock	𝍸 IIII	<40		
Coonstripe Shrimp	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸			
Big Skate	I	400		

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1610		Start coordinates	X:
Collection method/Effort #: EP-TR-17			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1607			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Red rock crab	𝍸 𝍸 𝍸 𝍸 𝍸			
Spider crab (Pugetia)	𝍸 𝍸 𝍸			
Decorator crab	III			
Slender crab	𝍸 𝍸 𝍸			
Saddleback gunnel	I			
Staghorn Sculpin	I			
Northern Sculpin	II			
Shiner Surfperch	I	40		

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1640		Start coordinates	X:
Collection method/Effort #: EP-TR-18			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1634			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Coonstripe Shrimp	~~IIII~~ IIII			
Slender crab	IIII			
Helmet crab	~~IIII~~			
Spider crab (Pugettia)	~~IIII~~			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1703		Start coordinates	X:
Collection method/Effort #: EP-TR-19			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment time 1656			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Anemone	II			
Slender crab	IIII	<30		
Rock sole	I			
Sand dab	I			

Windward environmental LLC

FORM B-5. NON-TARGET SPECIES TALLY FORM

Project Name:	LDW RI fish and crab chemistry	Project #:	04-08-06-22
Date: 10-07-04		Sampling area:	EP
Retrieval Time: 1728		Start coordinates	X:
Collection method/Effort #: EP-TR-20			Y:
Weather: Clear		End coordinates	X:
Sampler: RAC			Y:
Comments: Deployment Time 1721			

SPECIES	#	LENGTH (nearest mm)	WEIGHT (nearest 0.5 g)	COMMENTS
Red rock crab	𝍸			
Slender crab	𝍸 𝍸 III			
Coonstripe Shrimp	𝍸 III			
Decorator crab	III			
Rock Sole	II			
Starry flounder	I			
Seastar	I			
Roughback Sculpin	I			

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FIELD

All-Weather Notebook
No. 351

LDW RI Fish and Crab Chemistry
Project # 04-08-06-22

Book 1 of 3

4 5/8" x 7" - 48 Numbered Pages

Note: unmarked pages are not shown

08-02-09 LDW RI Fish and Crab Chemistry
(Shiner Surfperch Sampling)

0900 Arrive Harbor Island Marina

Crew: Bob Complita — Windward
Matt Luxon — "
Suzanne Replinger — "
Jeff Stern — King County
Charlie Eaton — Bio Marine
Tom Putnam — "

0915 Health + Safety Meeting
Sampling conducted aboard R/V Kittiwake using high rise trawl
Weather: overcast, cool (~65°), wind (~10 mph)

Protocol Modification #1 = High-rise trawl codend mesh is 1" as opposed to 1.25" as stated in the QAPP

Sampling Area 1B Trawl 1
Trawl deployment time: 1120
Trawl retrieval time: 1126
Start X 47 33.938 — End 47 33.742 X
Tow Y 122 20.831 — Tow 122 20.758 Y
Start X 47 33.978
Set Y 122 20.836

08-02-09

Target fish collected
Shiner Surfperch ×3
English Sole ×1
Pacific Staghorn Sculpin ×4

Sampling Area 1A trawl 2
Trawl to be conducted by skimming the navigation channel due to underwater debris closer in to shore as well as barges tied to the face of the dock along shore.

Trawl deployment time: 1200
trawl retrieval time: Trawl got hung up at 1208

Trawl length was shortened due to net getting hung on metal debris. See photos 121-122

Start X 47 33.959 — End X 47 33.863
Tow Y 122 20.937 — Tow Y 122 20.881

Start X 47 33.983
Set Y 122 20.944

08-02-04

Target fish Collected
English Sole x 11
Rockfish (Copper Rockfish) x 1
Pacific Staghorn Sculpin x 5
Shiner Surfperch x 4

Sampling Area 1C attempted to trawl @ 12:50, but barge + tug boat traffic forced sampling effort to be aborted. Trawl was not fully deployed and so was hauled back aboard and station was moved to 1E

~~Station~~ Sampling Area 1E trawl 3
Trawl deployment time; 1308
Trawl retrieval time: 1312

Debris in Trawl 3 included a large chunk of riprap (1.5 ft^3) and a truck tire

Start tow x 47 33.506
Y 122 20.714
End tow x 47 33.323
Y 122 20.608
Start Set x 47 33.532
Y 122 20.740

08-02-04

Target Fish Collected
English Sole x 19
Starry Flounder x 1
Pacific Staghorn Sculpin x 17
Shiner Surfperch x 8
x 2 = (Dead when removed from net)
10 total

End of trawling for day
Return to Harbor Is. Marina 1345

RAC
08-02-04

08-03-04 LDW RI Fish and Crab Chemistry
(Shiner Surfperch Sampling)

0700 Arrive Harbor Island Marina

Crew
Bob Complita — Windward
Matt Luxon — "
Kathy Gotdfradsen — "
Suzanne Replinger — "
Jeff Stern — KC
Charlie Eaton — Bio Marine
Tom Potram
Chris Hunt — SAIC

0730 Health + Safety Meeting

Weather: Overcast, Cool (~65°), wind (~10MPH)

Sampling Area 1D trawl #4

Trawl Deployment time: 0750
" Retrieval time: 0757
start tow X 47 33.744 Y 122 20.742
End tow X 4733.552 Y 122 20.661
Start Set X 47 33.787 Y 122 20.753
Target Fish Collected
Pacific Staghorn Sculpin X 1

Sampling Area 1C Trawl # 5
Trawl Deployment time: 0813
" Retrieval time: 0820

Start tow X 47 33.743 Y 122 20.842
End tow X 47 33.537 Y 122 20.739
Start Set X 47 33.789 Y 122 20.849
General Photos #123-126
Target fish collected

English Sole X 11
Staghorn Sculpin X6
Shiner Surfperch X 5

Sampling Area 1F Trawl #6
trawl Deployment time: 0837
" Retrieval time: N/A
Start tow X N/A Y N/A
End tow X N/A Y N/A
Start Set X N/A Y N/A

* Catch lost on retrieval due to codend coming loose. Trawl to be re-towed

Sampling Area 1F Trawl #7
Trawl Deployment Time; 0901
" Retrieval Time; 0908

Start tow: X 47 33.541 Y 122 20.640
End tow: X 47 33.337 Y 122 20.538
Start set; X 47 33.569 Y 122 20.657

~~Target fish collected~~
Trawl snagged on retrieval
Trawl loosen & good catch pulled aboard

Target fish collected

Pile perch x4
Shiner Surfperch x6
Staghorn Sculpin x1
English Sole x8

Sampling Area 2B Trawl #8
Trawl Deployment time; 0938
" Retrieval time; 0945

Start tow: X 47 32.822 Y 122 20.270
End tow: X 47 32.629 Y 122 20.183
Start Set: X 47 32.861 Y 122 20.288

Target fish collected

Pile perch x10
Shiner Surfperch x22
English Sole x16

Sampling Area 2A Trawl #9
Trawl Deployment time; 1017
" Retrieval time; 1025
Start tow; X 47 32.811 Y 122 20.334
End tow: X 47 32.620 Y 122 20.224
Start Set; X 47 32.858 Y 122 20.359
Target fish collected
~~Shiner Surfperch x9~~
English Sole x17

08-03-04

Pile perch x1
Staghorn Sculpin x 6

Sampling Area 2F Trawl #10
Trawl Deployment Time: 1050
Trawl Retrieval Time: 1058

Start tow: X 47 32.478 Y 122 19.943
End tow: X 47 32.307 Y 122 19.702
Start set: X 47 32.503 Y 122 19.979

Target fish Collected

Staghorn Sculpin x4
Shiner Surfperch x6
Pile Perch x4

Sampling Area 2E trawl #11*, #12
Trawl Deployment time; 1134
Trawl Retrieval time; 1141

Start tow: X 47 32.437 Y 122 19.956
End tow: X 47 32.273 Y 122 20.720
Start Set: X 47 32.459 Y 122 20.987

08-03-04

Target fish Collected

Staghorn Sculpin x4
Shiner Surfperch x9

*Trawl #11 Codend loosened during retrieval and catch was lost.
Trawl #12 is the re-do of trawl #11

1215 Return to Harbor Is. marina and transferred coolers w/ fish to the windward processing team. No COC form was filled out for change of sample custody from Trawling team to processing team. Sara Stillman (windward) will sign the COC form that will go to the lab to verify sample coolers were only in her custody during transfer from trawling team to processing team.

08-03-04

Sampling Area 3A Trawl #13

Trawl Deployment time: 1308 2
" Retrieval time: 1308

Start Tow: X 47 31.974 Y 122 19.252
End Tow: X 47 31.830 Y 122 19.003
Start Set: X 47 31.985 Y 122 19.271

Target fish Collected

Starry Flounder x1 English Sole x3
Pile Perch x5
Shiner Surfperch x6
Staghorn Sculpin x7

Sampling Area 3B Trawl #14
Trawl Deployment time: 1321
" Retrieval time: 1327

Start tow: X 47 31.988 Y 122 19.221
End tow: X 47 31.852 Y 122 18.991
Start set: X 47 32.010 Y 122 19.255

08-03-04

Target fish Collected
Shiner Surfperch x13
Pile Perch x1
Staghorn Sculpin x6
Starry Flounder x1

Sampling Area 3E Trawl #15
Trawl Deployment Time: 1341
" Retrieval Time: 1348

Start Tow: X 47 31.693 Y 122 18.759
End Tow: X 47 31.507 Y 122 18.554
Start Set: X 47 31.707 Y 122 18.785

Erika Hoffman
~~[illegible]~~ - 360-481-5163
Target species/fish Collected:

Staghorn Sculpin x 15
English Sole x 2
Shiner Surfperch ~~>50~~ 32
Pile perch x1

08-03-04

Sampling Area 3C Trawl #16

Trawl Deployment Time: 1414
Trawl Retrieval Time: 1418

Start Tow: X 47 31.782 Y 122.18.920
End Tow: X 47 31.846 Y 122.19.034
Start Set: X 47 31.768 Y 122.18.896

Target fish Collected
English Sole X1
Shiner Surfperch X 6
Staghorn Sculpin X 2

Sampling Area 3D Trawl #17
Trawl Deployment Time: 1429
" Retrieval Time: 1435

Start tow: X 47 31.732 Y 122 18.~~920~~ 773
End tow: X 47 31.863 Y 122 19.084
Start Set: X 47 31.723 Y 122 18.756

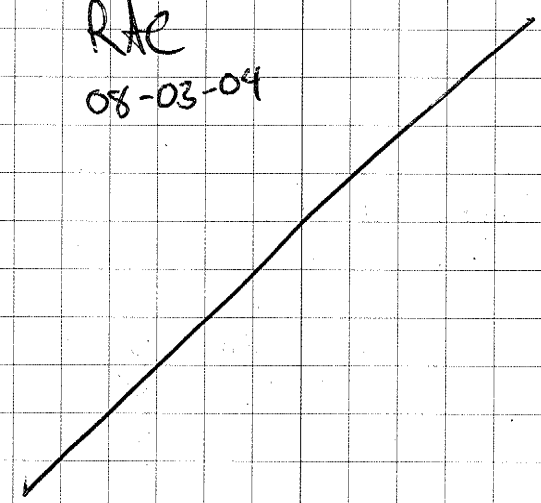
08-03-04

Target Fish Collected
pile perch X3
Staghorn Sculpin X 9
Shiner Surfperch X~~36~~ 35
English Sole X2

Trawl #17 is final trawl of day

1515 Return to Harbor Is. Marina

RAC
08-03-04



08-04-04 LDW RI Fish and Crab Chemistry
(Shiner Surfperch Sampling)

0700 Arrive Harbor Is. Marina

Crew Bob Complita Windward
Matt Luxon "
Suzanne Replinger "
Charlie Eaton Bio Marine
Tom Putnam "

P/U Erika Hoffman (EPA) @ 0915 at ~~[illegible]~~ S. Park Marina

0720 Health and Safety Meeting

Sampling Conducted aboard R/V Kittiwake using High Rise Trawl

Weather: overcast, cool (~60°), calm wind

Sampling Area 2C Trawl #18
Trawl Deployment time: 0752
" Retrieval time: 0755

Start tow: X 47 32.580 Y 122 20.178
End tow: X 47 32.653 Y 122 20.253
Start set: X 47 32.556 Y 122 20.147

08-04-04

Target fish collected

Shiner Surfperch X10
Staghorn Sculpin X ~~7~~ 5
English Sole X7

Sampling Area 2D Trawl # 19
Trawl Deployment time: 0816
Trawl Retrieval time: 0819

Start tow: X 47 32.609 Y 122 20.115
End tow: X 47 32.660 Y 122 20.206
Start set: X 47 32.570 Y 122 20.105

Target fish Collected

Shiner Surfperch X3
English Sole X ~~7~~ 9
Staghorn Sculpin X2

08-04-04

Sampling Area 3F Trawl #20

Trawl Deployment Time: 0853
Trawl Retrieval Time: 0902

Start tow: X 47 31.713 Y 122 18.725
End tow: X 47 31.510 Y 122 18.506
Start Set: X 47 31.729 Y 122 18.747

Target fish Collected

Shiner Surfperch X20 (83 total caught)
Staghorn Sculpin X17
Starry flounder X5
Pile perch X4
Striped Surfperch X1

Sampling Area 4A Trawl #21
Trawl Deployment Time: 0951
Trawl Retrieval Time: 0958

Start tow: X 47 31.083 Y 122 18.394
End tow: X 47 30.856 Y 122 18.302
Start Set: X 47 31.096 Y 122 18.398

Target Species Collected
Staghorn Sculpin X5 (10 total caught)
Shiner Surfperch X20 (100 total caught)
Starry flounder X1

Sampling Area 4B trawl #22
Trawl Deployment Time: 1028
Trawl Retrieval Time: 1033

Start Tow: X 47 31.029 Y 122 18.321
End Tow: X 47 30.871 Y 122 18.257
Start Set: X 47 31.045 Y 122 18.320

target Species collected

Shiner Surfperch X20 (96 total caught)

Sampling Area 4C Trawl #23
Trawl Deployment Time: 1100
Trawl Retrieval Time: 1105

Start tow: X 47 ~~31.029~~ 30.845 Y 122 18.~~321~~ 305
End tow: X 47 30.821 Y 122 18.222
Start Set: X 47 ~~30.862~~ 30.862 Y 122 ~~18.310~~ 18.310

08-04-04

target fish collected

Shiner surfperch x20 (total=292)
Starry Flounder x7 (total=144)
Staghorn Sculpin x ~~20~~ 21 (total=25)

Picked up Pat McMahon BioMarine at S. Park Marina @ 11:55
Lunch Break 1200 - 1210

Sampling area 4D Trawl #24, #25*
Trawl Deployment time: 1308
" Retrieval time: 1312

Start Tow: X 4730.866 Y 122 18.266
End Tow: X 4730.756 Y 122 18.172
Start Set: X 4730873 Y 122 18.267

* Trawl #24 hauled in a large "ball" of intermorpha and sediment and broke the codend line. Trawl catch was lost. Trawl #25 will replace trawl #24.

08-04-04

target fish collected

Shiner Surfperch x20 (185 total)
Staghorn Sculpin x5 (9 total)
Pile perch x1
Starry flounder x1 (134 total)

End of Day on water

1425 return to Harbor Is Marina

RAC
08-04-04

08-05-04 LDW RI Fish and Crab Chemistry
(Shiner Surfperch Sampling)

0700 Arrive Harbor Is. Marina

Crew Bob Complita - Windward
Matt Luxon - "
Suzanne Replinger - "
Charlie Eaton - Biomarine
Pat McMahon - "
Erika Hoffman - EPA Arrived @ 0940 p/u at ~~S. Park~~ Marina HI.

Weather: Overcast, cool (~60°), intermittent rain
calm wind

Health + Safety meeting

Sampling Area 1A Trawl # 26, #27*
Trawl Deployment Time: 0809
" Retrieval Time: 0814

Start Tow: X 47 33.923 Y 122 20.918
End Tow: X 47 33.801 Y 122 20.853
Start Set: X 47 33.967 Y 122 20.936

08-05-04

* Trawl # 26 was cut short due to the net getting hung on underwater debris. Catch was retained (minimal catch) and will be added to trawl #27's catch. Coordinates for this will be recorded for trawl # 27 only.

* Trawl #27 also got snagged on debris. Trawl + catch was retrieved without harm to the net or catch.

Target Fish Collected

Shiner Surfperch X1
Staghorn Sculpin X7
English Sole X8

Sampling Area 1D Trawl # 28
Trawl Deployment time: 0850
" Retrieval time: 0857

Start tow: X 47 33.754 Y 122 20.756
End tow: X 47 33.754 Y 122 20.744
Start Set: X 47 33.783 Y 122 20.756

No target Species caught

08-05-04

Sampling Area 1D trawl #29
Trawl Deployment Time: 0914
" Retrieval Time: 0921

Start Tow: X4733.740 Y122 20.757
End Tow: X4733.543 Y122 20.652
Start Set: X4733.778 Y122 20.771

target Species Collected
Shiner Surfperch ~~X4~~ X5

Sampling Area 1D trawl #30, #31*
Trawl Deployment time: 1013
" Retrieval time: 1020

Start tow: X4733.742 Y122 20.765
End tow: X4733.543 Y122 20.765
Start Set: X4733.777 Y122 20.778

* trawl #30 - Codend was not properly tied off and as a result no catch was hauled in. trawl #31 will replace trawl #30. Coords for #30 will not be recorded.

target Species Collected

Shiner Surfperch X4
Staghorn Sculpin X1

Sampling Area 2D trawl #32
trawl Deployment time: 1043
" Retrieval time: 1047

Start tow: X4732.~~561~~ 569 Y 122 20.132
End tow: X4732.669 Y 122 20.207
Start set: X4732.569 Y 122 20.108

target Species collected
shiner surfperch x11
english sole x11
staghorn sculpin x6

08-05-09

Sampling Area 2F Trawl #33
Trawl deployment time: 1107
Trawl retrieval time: 1114

Start tow: x: 47 32.443 y: 122 19.912
End tow: x: 47 32.289 y: 122 19.677
Start set: x: 47 32.479 y: 122 19.945

Target Species Collected
Staghorn Sculpin x2
Shiner Surfperch x3
English Sole x2
Pile Perch x1

Sampling Area 3C trawl #34
Trawl Deployment time: 1136
Trawl Retrieval time: 1140

Start tow: x 47 31.819 y 122 18.982
End tow: x 47 31.757 y 122 18.873
Start Set: x 47 31.834 y 122 19.014
Target Species Collected
English Sole x1
Starry flounder x1
Staghorn Sculpin x4

08-05-09

Sampling Area 3C trawl #35
Trawl Deployment time: 1152
Trawl Retrieval time: 1158

Start tow: x 47 31.824 y 122 18.983
End tow: x 47 31.694 y 122 18.760
Start Set: x 47 31.841 y 122 19.007
Photos #134 (general) #135 (Striped perch)
Target Species Collected
Staghorn Sculpin x1
English Sole x1
Shiner Surfperch x1
Striped Surfperch x1

Sampling Area 3~~D~~C Trawl #36
Trawl Deployment Time: 1259
" Retrieval Time: 1306

Start Tow: x 47 31.824 y 122 18.981
End Tow: x 47 31.695 y 122 18.761
Start Set: x 47 31.840 y 122 19.008
Target Species Collected
Pile Perch x1
Shiner Surfperch x3
Staghorn Sculpin x4
English Sole x4

08-05-04

Sampling Area 1F trawl #37
Trawl Deployment time: 1339
" Retrieval time: 1346

Start tow: X 4733.530 Y 122 20.651
End tow: X 4733.385 Y 122 20.544
Start Set: X 4733.566 Y 122 20.674
Target Species Collected
Shiner Surfperch X5 pile perch X1
English Sole X7
Staghorn Sculpin X5

End of Day on Water
1400 Return to Harbor Ts. Marina

RAC
08-05-04

8/6/04 LDW-RI- Fish & Crab Chemistry
Suzanne Replinger (shiner surfperch sampling)
Charlie Eaton
Matt Cuxon
Derek Pelletier
Pat McMahon
Chris Coulter

Depart Dock 7:25

weather - ~~Lots~~ Rain, Cool ~60°)
Health & Safety meeting

Sampling Area 1A Trawl # 38

Trawl deployment time: 7:37
" Return time: 7:43

Start tow: X 4733.927 Y: 122 20.919
End Tow: X 4733.732 Y: 122 20.817
Start Set: X 4733.967 Y: 122 20.933
Target spec. collected 1 E Sole
4 sculpin
0 SS

08/06/04

Sampling Area 1A Trawl 39

trawl deployment time: 8:01
trawl return time: 8:07
start tow: X: 4733.944 Y: 122 20.916
End tow: x: 47 33.726 Y: 122 20.813
Start set: X: 47 33.966 Y: 122 20.930

Target species collected: 2 shrimp
2 sculpin
1 Pile Perch

Sampling Area 1C trawl 40
trawl deployment time: 8:25
trawl return time: 8:30
start tow X: 47 33.764 Y: 122 20.792
End tow X: 4733.514 Y: 122 20.703
Start set X: 47 33.713 Y: 122 20.814
target species collected: 2 shrimp
1 Pile Perch
3 sculpin
8 English Sole

Picked up Allison Hilfiker & Erika Hoffman @ Harbor Island Marina 8:40

photo 136 = crew in cabin

08/06/04

Sampling Area 4B Trawl 41 slip 6
trawl deployment time: 9:33
trawl return time: 9:36
start tow x: 4731.144 y: 122 18.211
End tow x: 47 30.098 x: 122 18.343
start set x: 4731.159 y: 122 18.183

target species collected: 20 shrimp
3 sculpin

Sampling Area 2D trawl 42 slip 3

trawl deployment time: 10:14
trawl return time: 10:16
start tow x 47 32.556 Y 122 19.923
End tow x 47 32.532 Y 122 20.024
Start set x 47 32.565 Y 122 19.882

target species collected: 7 shrimp
4 English Sole
4 Sculpin

08/06/09

Sampling Area 2B trawl 43, slip 2
trawl deployment time 10:41
trawl return time 10:44
start tow x 47 32.797 y: 122 20.153
End tow x 47 32.702 y: 122 20.240
Start set x 47 32.819 y: 122 20.124
target species collected: 2 shiners
3 staghorn sculpin

Sampling Area 1F trawl 44, slip 1
trawl deployment time: 11:04
trawl retrieval time: 11:06
start tow x: 47 33.405 x: 122 20.517
end tow x: 47 33.395 y: 122 20.595
start set x: 47 33.411 y: 122 20.459
target spp collected: 2 staghorn sculpin
5 shiners
4 english sole

Sampling Area 1C, Trawl 45,
trawl deployment time: 11:21
trawl retrieval time: 11:27
start tow: x: 47 33.729 x: 122 20.822
end tow: x: 47 33.516 y: 122 20.725
start set: x: 47 33.765 y: 122 20.843
target spp. collected: 1 english sole
5 staghorn sculpin

End of day on water
11:50 return to Harbor Island marina

END

8/30/04 Beginning of 2nd Effort
Arrive 7:10

Matt Luxon FC
Tad Deshler
Chris Hunt
Chris Coulter
Charlie

weather - cloudy & 65°

Health & Safety meeting 7:30-7:45

Trawl 46
Sampling Area 4A
trawl deployment time 8:45
trawl retrieval time 8:55
Start tow X:
end tow Y:
Start set X:
End set Y:
target sp collected: 243 shiners (all thrown back back) PS - ~~17~~ ~~>10~~ 11 E.S. - 5
SF - ~~2~~ 3

TR 47
Sampling Area 4A
deployment time: 9:27
Retrieval time: 9:30
start tow X
start tow Y
start set X
Start Set Y
target sp: 3 pile perch, 13 PS

TR 48
Sampling Area 4B
deployment time: 9:55
Retrieval time: ~~10:04~~ ~~10:37~~ 10:04
start tow X
start tow Y
Start set X
Start set Y
target sp: PS - ~~4~~, 3

TR 49
Sampling Area 3d
deployment time : 10:30
retrieval time : 10:37
start tow X
Start tow Y
End tow X
End tow Y
target species: SS-3, PP-~~3~~ 2, SP-1, SF-2, PS-15
discarded

TR 50
Sampling Area 3d
deployment time 11:20
retrieval time 11:31
start tow X
start tow Y
End tow X
End tow Y
target sp: 1 Gacilis, 1 dungeness, 1 SP, ~~2~~ 1 SF, 3 PS, 1 ES

11:25 - trawl hung up under Bridge. Ended trawl to retrieve net.

Lunch

TR 51 - Bags noted 4D
Area 4C - trawling in channel.
deployment time: 12:42
retrieval time: 12:45
start tow X:
start tow Y:
End tow X:
End tow Y:
target species: PS-13, SF-1, PP-2

TR 52
Area 4C trawling in channel
deployment time: 1:19
retrieval time: 1:22
start tow X
Y
End tow X
Y
target sp: PS-~~15~~ 17, SF2

TR 53

Area 4D trawling in channel

trawl deployment: 1353

trawl retrieval: 1357

start tow X

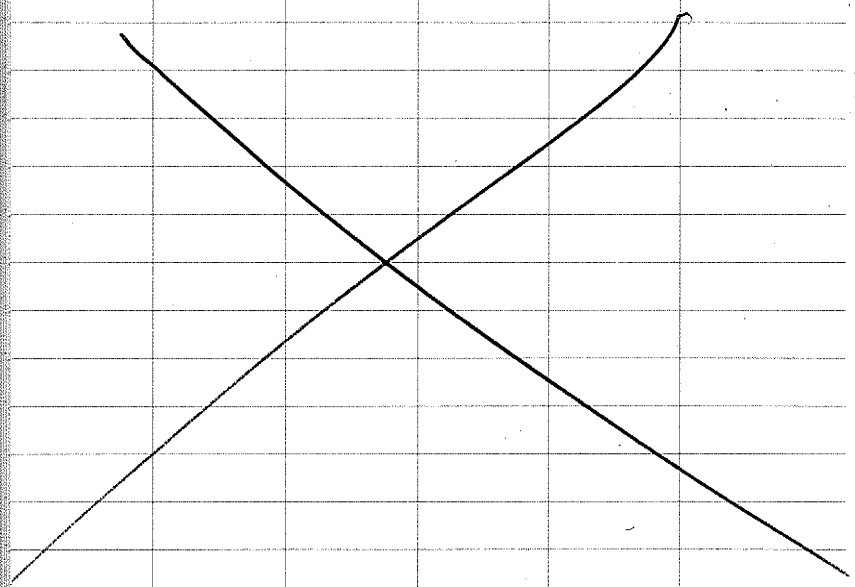
Y

End tow X

Y

target species: ~~20~~ 21 PS, 1 SF

1450 return to dock



8/31/04

Arrive 7:00

Health & Safety meeting

Matt Luxon FC

Charlie Eaton

Chris Coulter

Chris Hunt

Debra Williston

Joanna Florer

Leave Dock 7:20

weather Pt Cloudy, no wind T=60°

Trawl 54 trawling on shoulder

Sampling Area 4 B

trawl deployment 7:59

trawl retrieval 8:06

start tow X

start tow Y

start set X

Start set Y

target species: 1ES, 1SS, 2PS, 2SF

Trawl 55
Area 4B
start 8:25
Retrieval 8:30
start X
Y
End X
Y
targed species: 1 PS, 2 SF, ~~9 PS~~

Trawl 56
Area 4B
start time: 8:37
retrieval time: 8:50
start X
End X
targed sp: 1 DC, 1 SF, 9 PS

Trawl 57 Mud in trawl
Area 4D
start trawl time: 9:10
End time: 9:17
start X
start Y
End X
End Y
targed sp: 2 SF, 3 PS
decided to keep v. large PS

Trawl 58 Mud in trawl
Area 4D
start time: ~~10:02~~ 10:05
End time: 10:12
Start X
Start Y
End X
Y
targed sp: 8 SP, 1 PP,

Trawl 59
Area 3B
start trawl 11:05
End trawl 11:14
Start X
~~Stat~~ Y
End X
End Y
target sp: SS-7,

along edge of channel

11:28 head to SP Marina for lunch
transferred fish to Fiona McNair
~~12:10 Cast off from SP Marina~~
met w/ Bob Complita, Derek Pelletier
& Marianne welsh - They gave
Crabs to Fiona McNair
Chris Hand transfer to Crab boat
12:10 Cast off from SP Marina

Trawl 60
Area 3B
start time: 12:20
End trawl: 12:25
Start X
Start Y
End X
End Y
target sp: 1ES, 6PS (2>12),

TRawl 61 Area 3B
Start time: 12:45
retrieval time: 12:52
Start X
Y
End X
Y
target sp: 1ES, 2SF, 10PS

TR 62
Area 3B
Start trawl 1:15
End trawl time: 1:22
start x
y
End x
y
target sp: 1 DC, 1 PS

TR 63
Area 3F
start trawl time: 1:45
End time 1:50
Start x
y
End x
y
target sp: 2/3 SF, 2 ES, PS-9, SS-3, 1 PP

2:20 Return to Harbor Island Marine

Weeds
Zeros
Gloves
Ice
coolers

9/1/04 7:20 am depart from dock

crew
Charlie Eaton
Tom Putnam
Matt Luxon
Derek Pelletier
Erika Hoffman
Marla Steinhoff

Health & Safety Plan
7:30 - 7:40
weather - Rain ~60°, no wind
Rain stopped 8:20

TR 64 Area 4D
start trawl time: 8:13
End trawl time: 8:17
target sp: PS-3,

Lots of Eteronorpha

TR 65 Area 4D
start time 8:55
end time 9:00
target sp: 1 PP

1 Juvenile chinook
170 mm unclipped
incidental mortality
to be archived @ POS
bagged & Iced.

TR66 Area 4B
Start trawl 9:55
End trawl 10:02
target sp: DC-2, 3PS, 1SF

TR 67 Area 4B
start trawl: 10:30
End trawl: 10:37
target sp: 1 DC

TR68 Area 4B
Start trawl 10:52
End trawl 11:00
target sp: 1 SF, 3PS (>15)

TR69 Area 3E
Start trawl time 11:25 twist in net
End trawl time 11:32 limmited catch
target species: PP-1, SP-1, DC-1

TR70 Area 3E
Start trawl: 11:45,
End trawl: 11:55
target sp: 3ES, 2PS (>150), 5SP, 2PP

12:16 S. Park Marina for Lunch
12:51 depart dock

TR71 Area 3A
Start trawl 1:00
End trawl: 1:07
target sp: 2ES, 2PS (>20), 5PP

TR 72 Area 3B
start trawl 2 attempts, net not
End trawl set.
target sp: 1:55 fishermen in path
3rd attempt 2:00
lines crossed, trawl abandoned.
tied to barge Charlie, SCUBA dived ~~to~~ untangled the net from rudder 2:55
head to Dock

End of Day
MGL

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FIELD

All-Weather Notebook
No. 351

LDW - Perch collection
beach seining
T Rawlong 9-2 Co 9/8/04
Background Sampling 9/14/04 to 9/17/04

4 5/8" x 7" 48 Numbered Pages

Book 2 of 3

8/2/04

LDW fish collection - beach seining
crew: Lewis, Jim, Bruce (Taylor)
Joanna (Windward)
Started from 1st Ave boat launch @ 0930
Went to area 4, but decided that river current + ebbing would make seining too difficult. Will return at a flooding tide

Arrive Sample area 3 @ 1025
set 1-3A @ 1030 (set) 1045 (retrieved)
collected 20 shiner perch >8cm
+ 2 sculpin >10cm
set 2 - 3B @ 1130 (set) 1145 (retrieved)
collected 12 shiner perch >8cm
+ 1 sculpin @ 10cm
set 3 - 3F @ 1155 (set) 1210 (retrieved)
no fish of target size or species
- lunch break 1230 - 1300

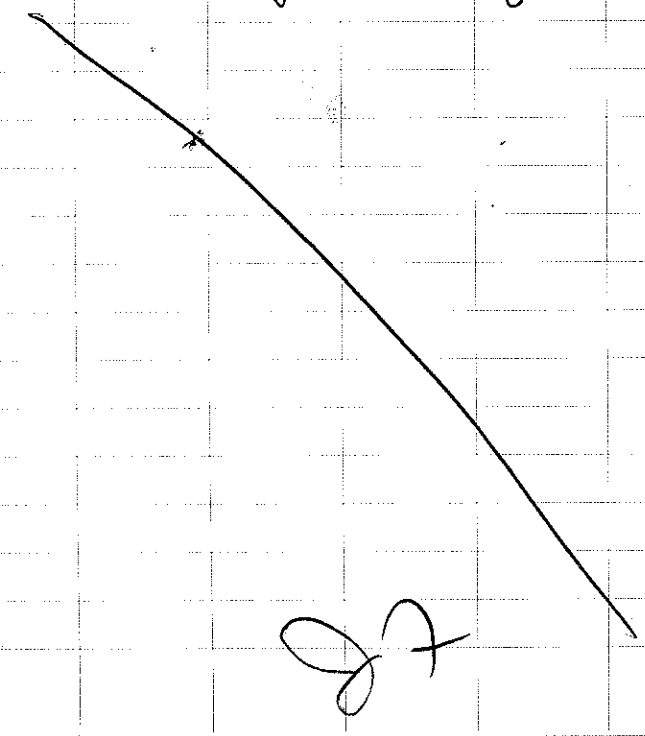
Arrive Sample area 4 @ 1315
lots of loop + wood debris along the beach
Could not seine south of auto bridge

8/2/04

set 4 - 4E @ 1335 (set) 1340 (retrieve)
- no shiner perch >8cm
- 1 Starry flounder 210mm

set 5 - 4E @ 1400 (set) 1405 (retrieve)
could not complete retrieval
bag caught on snag + could not be done w/o compromising the set.

Beach seining finished for the day



8/3/04

LDW - Shiner perch collection
Beach seining
crew: Lewis, Bruce + Bill (Taylor)
Joanna (Windward)
left 1st Ave boat launch @ 0935

Arrive Sample Area 1 @ 0950
set 6 @ 0955 (set), 1005 (retrieve)
└ 1B

Start:	Stop:
122 20.755 N	122 20.757
47 33.971 W	47 33.955 N

On ~~west~~ east side of cement facility loading dock just South of

No target species collected

set 7 @ 1025 (set), ~~1035~~ (retrieve)
└ 1B

Start:	Stop:
122 20.773 W	N/A
47 33.841 N	

just South of previous set
current too strong could not pull in net

Set 8 - 1D @ 1043 (set) 1050 (retrieve)

Start: ~~122 20.~~ Stop:
122 20.679 122 20.669
47 33.662 47 33.640

Duwamish Diagonal Public Shoreline access park

NO target species

Set 9 - 1B @ 1112 (set) 1120 (retrieve)

Start: Stop:
122 20.742 W 122 20.728
47 33.818 N 47 33.803

North of Duwamish Diagonal Outfall but adjacent

Collected 18 Shiner perch 78cm

Lunch break 1145-1215

8/3/04

Set 10 - 2B @ 1215 (set) 1225 (retrieve)

Start: Stop:
122 20.182 W 122 20.182 W
47 32.720 N 47 32.709

beach south of the mouth of slip between two loading docks

No target species captured

Set 11 - 2B @ 1236 (set) 1245 (retrieve)

Start: Stop:
122 20.181 W 122 20.184
47 32.694 N 47 32.684

same beach just set further south

Collected 11 Shiner perch 78cm

Set 12 - 3C @ 1328 (set) 1335 (retrieve)

Start: Stop
122 ~~20~~ 18.908 122 18.937
47 31.756 47 31.770

north of Southpark bridge to American flag on cement bulkhead

Caught on sock - poor set

Set 13 – 4C @ 1415 (set) 1425 (retrieved)

Start: 122 18.124W 4730.726N

Stop: 122 18.136 47 30.720

just north of where creek enters the LDW

Collected 3 staghorn sculpin

Set 14 – 4C @ 1450 (set) 1500 (retrieved)

Start: 122 18.150W 4730.708N

Stop: 122 18.162 47 30.700

Collected 13 shiner perch + 3 staghorn sculpin

9/2/04 trawling

Arrive 7:00 Harbor Island Marina
Depart dock 7:25 HSM (health & Safety meeting)

- note: have Thai & Linda sign HSP

crew
Charlie Eaton
Chris Coulter
Thai Doh
Linda
Matt Luxon

weather Mostly Sunny ~65°

TR 72 Area 4D
trawl start: 8:12
Trawl end: 8:25
Start X
Y
End X
Y
target sp 2 SF

TR 73 Area 4D
Start trawl 8:29
End trawl 8:33
target sp: 3SF, 1PS

trawling downstream
S common merge.

TR 74 Area 4D
Start trawl 8:43
End trawl 8:48
target sp: 1PP

trawling downstream
Large Branch caught
in net

TR 75 Area 4B
Start trawl: 9:11
End trawl: 9:20
target sp: 3PS, 1SF

~~trawling~~
d

Trawl 76 Area 4d
Start trawl: 9:48
End trawl: 10:02
target sp: 1PP, 2SF, 4PS

in channel
downstream

10:25 dock @ SP Marina to
pick up Gina Hoffman met
w/ Bob Complita

TR 77 Area 4B
Start trawl: 10:55
End trawl: 11:00
target sp: 3PS, 1ES, 1SF

TR 78 Area 4B
Start trawl: 11:11
End trawl:
target sp: 12ES, 1DC

in channel

TR 79 Area 3B
Start trawl: 12:05
End trawl: 12:09
target sp: none

TR80 Area ~~3A~~ 3A
Start trawl: 12:
End trawl: 12:29
target sp: 2ES, 2PS, 1PP

12:50 - Go to S. Park Marina handed
off samples to Joanna Florer, met
w/ Bob Complita he passed crab samples
to J. Florer, Depart dock 1:15.
Lunch

TR 81 Area 3E
Start trawl: 13:27
End trawl: 13:32
target sp: 1 ES, 2 SF, ~~11 SS~~, 3 PS
thrown back

TR 82 Area 3E
Start trawl: 13:55
End trawl: 14:04
target sp: 3 PP, 4 PS,

TR 83 Area 3F
Start trawl ~~2:20~~ 14:28
End trawl 14:35

Note that fish we ID'd as northern sculpin are not northern
& mysid shrimp = crangonid shrimp (sand shrimp)

PS (>20cm) extracted a partially digested SS (13.5cm) from its mouth. Discarded the SS
1 SP, 1 PS, 1 SF
Return to dock 2:55 (14:55)

	ES	SF	PS	SS	PP
3A				8	
B	1,1	2	4,11	7	
C					
D					
E					
F	2	3	1	3	1
4 A					
B					
C					
D					
E					
F					

End of Day 9/2/04

9/3/04 Arrive 7:15
Health & Safety meeting
Crew
Charlie Eaton
Chris Carlter
Marianne Welsh
Matt Curon
Pick up Erika Hoffman 8:45
Harbor Island Marina

TR 84 Area 4D
Start 8:14
End trawl 8:17
target sp: none

TR85 Area 4D trawl in channel
start trawl: 8:26
End trawl: 8:31
target sp: 5-SF

TR86 Area 4A
start trawl: 9:15
End trawl: 9:20
target sp: 5PS, 1ES, 2SF, 1Sp
1 PS <12cm

TR87 Area 4A in channel
Start trawl: 9:37
End trawl: 9:42
target sp: ~~9PS~~, 1ES, 3SF
5PS

TR 88 Area 4B in channel
Start trawl: 10:14
End trawl: 10:19
target sp: ~~3F~~, 2PS, 5ES

TR89 Area 4A in channel
start 10:33
End 10:38
target sp 2ES,

TR90 Area 4B in channel
start: 10:52
end: 11:00
target sp: ~~6ES~~
5ES

TR 91 Area 4A in channel
start: 11:21
End: 11:27
target sp: 5ES

TR 92 Area 4B in channel
start: 11:46
End: 11:52
target sp: 9 ES, 2PD

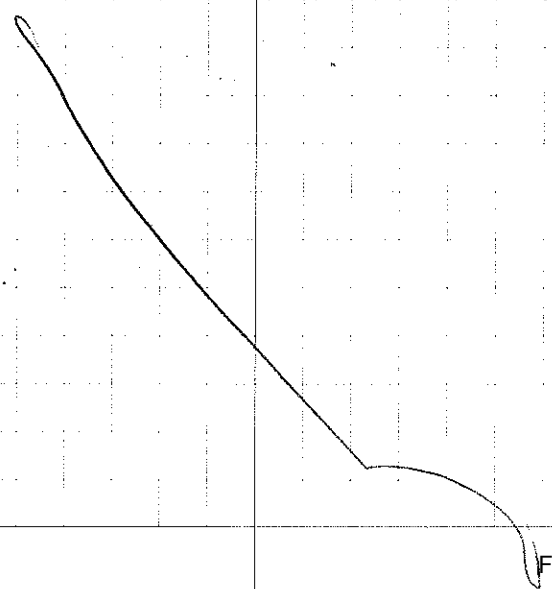
12:17 S.Pk. maneuver for lunch
12:40 depart dock

Trawl 93 Area 3B
Start trawl 12:49
End trawl 12:55
target sp: none

TR 94 Area 3B channel
start trawl ~~113~~
End trawl 1:13
target sp: 1 ES

TR 95 Area 3B in channel
Start: 1:25
End: 1:31
target sp: 7 PP, 1 PS

TR 96 Area 3D ~~edge of~~ channel
Start: 1:47
End: ~~1~~ 1:53
target sp: 2ES, 8 PS, 1 SP, 2SF
~~dr~~
drop off Erika Hoffman @ S. Pk. maneuver &
return to dock 2:10



9/6/04

tally of fish caught in channel

4D	TR51	13PS, 1SF, 2PP
4C	TR52	15PS, 1SF
4D	TR53	20PS, 1SF
3B	TR59	7SS (along edge)
4B	TR78	12ES, 1DC
4D	TR85	5SF
4A	TR87	5PS, 1ES, 3SF
4B	TR88	2PS, 5ES
4A	TR89	2ES
4B	TR90	5ES
4A	91	5ES
4B	92	9ES, 2PP
3B	94	1ES
3B	95	7PP, 1PS
3D	96	2ES, 8PS, 1SP, 2SF

	ES	PS	SF	SS	
4D		13, 20, (33)	1, 1, 5 (7)		
4C		(15)	(1)		
3B	(1)	(1)		(7)	
4B	12, 5, 5, 9, 1 (32)	(2)			(2)
4A	1, 2, 5, (8)	(5)	(3)		
3D	(2)	(8)	(2)		

9/7/04

Arrive 6:45
Crew
Charles Eaton
Chris Coulter
Chris Hunt
Debra Williston
Matt Luxon FC

weather clear skies
sunny ~60°
no wind

Brief Health & Safety

TR 97 Area 3B in channel
Start: 7:44
End: 7:50
target spi ~~PR~~, 2PS

TR 98 Area 3B in channel
trawling S to N (downstream)
@ slack tide
Start: 7:59
End: 8:04
target spi ES-1

TR 99 Area 3b channel
Start 8:16
End 8:20
target sp: 1ES

TR 100 Area 3d channel
Start 8:45 downstream trawl
End 8:51
target sp: none

TR 101 Area Area 3d channel
Start 9:00 downstream trawl
End 9.05
target sp: 3 PP

look into s2 @
maturity for PP

TR 102 Area 3F on shoulder
Start 9:25
End 9:32
target sp 1PP, 2PS

Trawl 103 Area 3F channel
Start 9:45
End 9:52
target sp: 1ES, 2PP

TR 104 area 3F channel
Start 10:04
End 10:12
target sp: 1GC

TR 105 3~~4~~ml A shoulder
Start: 10:23
End: 10:29
target sp: ~~none~~ 1PS

TR 106 3~~4~~ml A channel
Start 10:36
End 10:43
target sp: no keepers

TR 107 3~~4~~ml A shoulder
Start: 10:52
End: 11:00
target sp: ~~None~~ DC

S

TR 108 Area 3B shoulder downstream
start 11:09
End 11:15
target sp none

TR 109 Area 3B channel
Start 11:26
End 11:33
target sp: 1PP, 1PS

TR 110 Area 3F channel
Start: 11:44
End 11:52
target sp: 2 DC, 7 ES, 3PS

TR 115 ~~#~~ sp Marina for lunch
met w/ Bob Complita, Mike Johns, Doug Hotchkiss

TR 111 Area 3F channel downstream
Start: 13:03
End: 13:10
target SP: 1 PP, 2 PS

TR 112 Area 3D channel downstream
Start 13:29
End 13:33
target sp: 2PP, 1DC

TR113 Area 3D channel dnstrm
Start 14:04
End 14:09
target sp: 1 ES, 6 PP, 1PS, 1DC

TR 114 Area 1D ~~shoulder~~ shoulder ~~channel~~
Start 14:49
End 14:55
target sp: 2 PS

TR 115 Area 1D ~~shoulder~~ channel
Start: 15:10
End 15:15
target sp: 1ES, 1DC, 1PP, 4PS
Fish identified as northern sculpin are actually roughback sculpin.
15:41 Return to Harbor Island Marina
End of Day

Priorities for 9/8/04

3) (2) 1B, (2) 1D (channel) ~~ES~~ ES

1) (2) 2E, 2F (2)

2 4C, channel (2.34)

4) (1) 1A shoulder, 1C (1) shiner surfperch

5) 2B sculpin not important

9/8/04 Arrive 7:10

Crew
Charlie Eaton
Chris Coulter
Chris Hunt
Maryann Welsh
Matt Lixon FC

Sunny - 60°
Light wind
Health & Safety Meeting

TR 116 Area 2E
Start 7:55
End 8:00
target sp: 1ES, 4PS, 8SS

TR117 Area 2E channel
Start 8:22
End 8:27
target sp 2SC, 3SS, 1ES, 1PP

TR118 Area 2F edge of channel
Start 8:43 downstream downstream
End 8:48
target sp ~~2SC, 3SS, 1ES, 1PP~~
2PP, 4PS, 1SC, 3SS

TR119 Area 2F channel downstream
Start 9:16 2 tires in net
End 9:21
target sp 1SC, 5SS, 1PS

TR120 Area 4C channel
Start 9:57
End 10:02
target sp: 6SS

TR121 Area 4C channel
Start: 10:21
End: 10:24
no keepers

TR122 Area 1B shoulder
start 11:10 wind 10-15 from S
End 11:16
target sp: 1DC, 1RC

TR123 Area 1B channel
start 11:32
End 11:40
target sp: 1SS, 1SC

11:46 return to Harbor Island for lunch

TR124 Area 1D channel
Start: 12:21
End: 12:25
target sp: 1RF (copper?), 1PS, 1SS

ID of
unknown sculpin ID'd as "northern"
- no scales on head
- ~~narrow line of scales on back~~
- 19 rays on 2nd dorsal fin (∴ not northern)
- no bars on any fins (∴ not northern)
- no opercular spines (∴ not northern)
- dark spot on anterior of 1st dorsal (prickly)
- anal fin w/ ~17 rays (prickly)
- scales on back are consistent w/ desc. of prickles on back of prickly
- habitat is River mouths & Estuaries based on Eschmeyer & Lamb & Edgell keys & extensive collaboration everything previously called smoothhead or northern is a prickly sculpin.

TR125 Area 1A wind from ~~SW~~ SSW building
Start trawl 12:53
End 1301
target sp 4SS, 1PS, ~~2ES~~ 1ES
~~1ES~~ ES has no pigmentation on
Caudal Peduncle

TR 126 Area 1C ~~shoulder~~ shoulder
start trawl 1:21
End trawl 1:27
target sp: 4SS
water in
trawls this week ~~have~~ has been
More brown w/ leaf matter
- Appears to be tannic

Return to dock 1330 End of
trawling effort.

MGL

Identification of Rockfish sp.

Dark brown patch on gill cover
Pinkish underbelly
Dark brown mottling on dorsal surface
Base of pectoral fins pinkish

Identified as brown rockfish by
Matt Luxon and Bob Complita
using the Peterson Field Guides
Pacific Coast Fishes book

9/14/04 Background Sampling

Arrive 7:10 - Load & Prepare Boat
- Crab Pots,
- Trawl net
- Sediment sampler - Echman Grab

Crew
Charlie Eaton
Chris Coulter
Jeff Stern
Lon Kissenger
Derek Pelletier
Bob Complita

Crab traps set on SW of Blake Island

trap 1 - set ~~9:15~~ 9:21 depth: 119
X:
Y

trap 2 set 9:25 depth: 119
X
Y

Trap 3 set 9:34 depth: 116
X
Y

trap 4 set 9:36 113
X:
Y:
depth

trap 5 set 9:46 depth 48'
X:
Y

trap 6 set: 9:48, depth 43'
Trap ~~6~~ 7 set: 9:50 depth 41'
X
Y

trap 8 set ~~9:54~~ 9:56 depth ~~#~~ 40'
X:
Y:

Trap ~~8~~ 9 set ~~9:56~~ 9:57 depth 30'

trap ~~9~~ 10 set ~~10:14~~ 9:50 depth ~~37~~ 20'

trap 11: set 9:50 depth ~~20'~~ 15'

trap 12 Set 10:04 depth 39'

Begin trawling @ 10:22

BL TRawl 1 -
Start trawl : 9:24
End trawl : 10:33
target sp: 1ES

BL Trawl 2
start trawl 11:01
End trawl 11:09
target sp : none

BL trawl 3 depth 80'
start trawl 11:31
End trawl 11:40
ES - 4, SS-1, SC-1

BL-TR-4
start trawl 11:52
End trawl 12:11
target sp ES, 3

BC- TR- 5
start: 12:30
End: 12:47

target sp: 42 ES, 37 SS, 2 DC

Retrieving Crab Pots

Pot 1 - 1:50 (13:50) 6 DC, 1 SC (BL CT 1)
RR (back)
1:50

Pot 2 (BL CT2)
2:03 (14:03) 7 DC
1 RR

Pot 3 (BL CT3)
14:10 4 DC

Pot 4 (BL CT4)
14:14 1 DC

Pot 5 (BL CT5) 14:25
2 RR 8 DC, 3 SC

Pot 6 (BL CT6) - 14:28
~~8 DC 3 SC~~
1 DC

Pot 7 14:33 BL CT 7
5 RR, 1 DC

Pot ~~8~~ 9 14:35 ~~BL CT 8~~ BL CT 9
5 RR, 3 DC (Bag labled BL CT 8)

Pot 8 BL CT 8
14:37 5 RR

POT 10 BL CT 10
14:41 3 RR, 1 SC (Too small)

Pot 11 BL CT 11 14:45
4 RR

Pot 12 BL CT 12 14:48
1 DC, 6 RR

Return to Harbor Island Marina 14:48

Locations for sed sampling
Sediment - 4 TR (1 long)
Crab transect
SC

9/16/04

Arrive 7:00
weather Cloudy ~ 55°
Motor to Blake Island
Health & Safety meeting en Route
Crew
Charlie Eaton
Chris Coulter
Bob Complida
Derek Pelletier
Matt Luxon

5 shrimp traps to be Placed based on 9/14/04 SC catch (traps CT-1, CT5, CT10)

	set time	depth
ST 1	8:42	52'
	8:44	54'
	8:46	52'
	8:48	50'
	8:51	56'
	8:52	57'

8:52 Prep for single van-veen grabs sediment samples to be collected at BL-TR1, BL-TR3, BL TR4, BL TR5 & at the approximate mid point of

Crab trap locations BLCT-1 to BLCT4 where DC were captured.

Grab	time	depth
BL-Sed-1	9:06	49
BL Sed 2	9:18	78
BL Sed 3	9:36	~~132~~ 82
BL Sed 4	9:45	137
BL Sed 5	10:02	130

collected 2 even spoonfulls of sediment from each location & composited them together.
2 composite samples below. ~~Bed~~ (500ml)
BL-Sed-1 marked for Arsenic analysis
BL-Sed-2 marked for Archive

Collecting Shrimp traps

trap	Collection time
BL-ST-1	10:34
ST2	10:37
ST3	10:39
ST4	10:42
ST5	10:47
ST6	10:51

Motor to East Passage

East Passage
Setting 12 crab traps & 6 Shrimp traps
Baiting traps w/ Halibut, superbait & Salmon parts during Passage

Arrive Seahorse Park 11:56 Begin setting
Crab traps:

trap	time	depth
EP-CT-1	12:02	
2	12:05	
3	12:08	
4	12:11	
5	12:15	
6	12:17	
7	12:19	
8	12:24	
9	12:27	
10	12:30	
11	12:34	
12 ~~12~~	12:36	
ST1 ~~13~~	12:40	
2	12:42	
3	12:44	
4	12:46	
5	12:47	
6	12:50	

12:50 begin trawling

EP TR 1
Start: 1310
End: 13:28
target sp: 1SS, 3DC, 1SC, 48ES

EP TR 2
Start: 14:23
End: 14:28
target sp: none

EP TR 3
Start 14:47
End 14:58
target sp: 3SS, 5ES

EP TR 4
Start 1523
End 1531
target sp 1SS, 1SP

Crab trap retrieval

trap	time	catch
EP CT 1	1620	1DC
2	1630	—

	trap	time	catch
Ct	3	1638	—
	4	1640	7DC
	5	1645	4DC
	6	1648	1DC
	7	1652	1DC
	8	1654	1DC
	9	1659	11DC
	10	1635	
	11	1702	3DC
	12	1706	3DC
EP ST	1	1710	
	2	1712	1 SC too small
	3	1716	
	4	1719	3SC
	5	1723	—
	6	1728	—

Return to Harbor Island Marina

9/17/04

Arrive @ Boat 7:00
Offload Crab TRAPS
Motor to East Passage depart
dock 7:30
Crew
Charlie Eaton
Chris Coulter
Derek Pelletier
Bob Complita
Matt Luxon

weather mostly sunny ~60°

Setting shrimp traps & Collecting shiner surfperch via travel.
ST: set @ ~ 50' based on EP.ST-4 on 9/16/04

trap	time	depth	
EP-ST-7	0907	50'	Ebb tide
8	0909	40'	EP-ST-18
9	0911	58'	time: 0938
10	0914	52'	depth: 60'
11	0916	50'	
12	0919	58'	
13	0921	~~58~~ 55'	
14	0928	58'	
15	0930	58'	
16	0933	62'	
17	0936	56'	

9/17

EP-TR-05
Start: 0955
end: 1005
target sp: none

EP-TR-06
Start: 10:24
end - 10:37
target sp: 1 SS

EP TR07
Start 11:31
End 11:40
target sp 1 SS

EP TR08
Start 12:05
End: 12:19
target sp: none

12:32 transit to W. side of E. Passage

EP TR09
start: 12:50
end: 1303
target sp ~~1 pp~~ 1 pp

9/17 Shrimp Pot Retrieval

Start @ Pot #7

Trap #	Retrieval time	sp.
7	14:15	Ø
8	14:16	2 sunflower stars (pycnopodia)
9	14:19	Ø
10	14:22	1 RR
11	14:26	1 RR
12	14:31	1 RR, 1 SC
13	14:39	Octopus rubescens
14	14:44	Ø
15	14:46	Ø
16	14:49	Ø
17	14:51	1 sunflower star
18	14:53	Ø

back to trawling
EP TR10
Start - 1504
End 1508
target sp ~~2~~ 3 SS, 1 SC plus keeping
5 ~ 7.5 to 8 cm

9/17/04

EP TR 11
Start 15:57
End 16:00
target sp: 1 SC ~ 8.5 cm

prep for sediment grabs

Sed grabs taken @ TR1, TR3, TR10
CT 3, CT 4, TR1 and 2

Grab	time	depth	good
EP Sed G1	1643	24'	N
EP Sed G2	1647	24'	Y
EP Sed G3	1659	127'	N
EP Sed G4	1704	130'	Y
EP Sed G5	1710	145'	N
EP Sed G6	1720	145'	Y
EP Sed G7	1733	211'	Y
EP Sed G8	1750	14'	Y

transit back to Harbor island

9/17/04

CTs 5-8, CT 11 & 12
CT 9 near end of TR1
final tally
5 SS, 1 SP, 1 PP
3 SC & 2 SZ + 5 SC < 90 mm

End of day
10:30 am

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LEVEL

All-Weather Notebook
No. 311

Project # 04-08-06-22
LDW - RI - Fish and Crab Chemistry
Background Sampling 10-07-04
Book 3 of 3

4 5/8" x 7" - 48 Numbered Pages

10-07-04 LDW RI Fish + Crab Chemistry

Background trawling cont'd

Weather: clear, calm (No wind), 60°F

Crew

Bob Complitn (FC)
Derek Pelletier
Thai Do
Charlie Eaton
Chris Coulter

Day Priorities:

- ½ day @ Blake Is.
  6 Shrimp traps + Trawling
- ½ day @ East Passage
  6 Shrimp traps + Trawling
- Target Species = Shiner Perch and C. gracilis

0700 Met @ Fisherman's Terminal to load gear.

0715 on water heading to Blake Is.

Shrimp Trap deployment

Trap	Deployment time	Depth (ft.)
BL ST 7	0920	44
BL ST 8	0925	47
BL ST 9	0928	13
BL ST 10	0931	24
BL ST 11	0934	45
BL ST 12	0936	30

Begin trawling at Blake Is. 1000

10-07-04

BL TR-6
Start: 1003
End: 1021
Depth: 142 feet
Target Species: 18 SS

BL TR-7
Start: 1044
End: 1104
Depth: 140 feet
Target Species: 6 SS

Shrimp trap retrieval

Trap	Retrieval Time	Target Sp.	
BL ST7	1139	Ø	Trap Empty
BL ST8	1143	Ø	"
BL ST9	1145	Ø	"
BL ST 10	1147	Ø	"
BL ST 11	1149	Ø	"
BL ST 12	1151	Ø	"

Motoring to E. Passage 1200
Arrive E. Passage 13:00

10-07-04 LDW RI Fish + Crab chemistry

Shrimp Trap Deployment

Trap	Deployment Time	Depth (feet)
EP ST 19	12:59	20
EP ST 20	13:02	20
EP ST 21	13:05	22
EP ST 22	13:08	25
EP ST 23	13:10	28
EP ST 24	13:13	27

Begin trawling @ East Passage 1320

EP-TR-12
Start: 1322
End: 1327
Depth: 19 feet
Target Species: 6 SS

EP-TR-13
Start: 1405
End: 1412
Depth: 21 feet
Target Species: Ø

10-07-04

EP-TR-14
Start: 1439
End: 1452
Depth: 120 feet
Target Species: 1 SC

EP-TR-15
Start: 15:10
End: 15:18
Depth: 15 feet
Target Species: Ø

EP-TR-16
Start: 1530
End: 1537
Depth: 20 feet
Target Species: Ø

EP-TR-17
Start: 1607
End: 1610
Depth: 20 feet
Target Species: Ø

EP-TR-18
Start: 1634
End: 1640
Depth: 15 feet
Target Species: Ø

EP-TR-19
Start: 1656
End: 1703
Depth: 40 feet
Target Species: Ø

EP-TR-20
Start: 1721
End: 1728
Depth: 20 feet
Target Species: Ø

End of trawling
17:30

Heading to retrieve
Shrimp traps

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All-Weather Notebook
No. 351

Project # 04-08-06-22
LDW RI - Fish and Crab Chemistry
LDW Crab/Shrimp Trap Collection Effort
08-30-04 to 09-07-04

4 5/8" x 7" - 48 Numbered Pages

Book 1 of 2

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PAGE	REFERENCE	DATE

08-30-04 LDW RI - Fish + Crab Chemistry
Crab Collection effort

Crew Bob Complita
Derek Pellatier
Joanna Florer

Weather: Overcast, cool (~60°F), No wind
0515 Arrive Windward to load gear
0610 Arrive 1st Ave S Boat Launch
0700 on water. Heading to Area 1

Deployment Phase

Trap #	Time	Subarea	Coords (Lat/Long)
C (crab) 1	0710	1A	47 33.948
F (fish) 1	0710	1A	122 20.926
C 2	071545	1A	47 33.~~847~~ 981
F 2	071545	1A	122 20.~~872~~ 939
C2+F2 Moved due to vessel traffic. Coords/Time Adjusted			
C3	0722	1B	47 33.897
F3	0722	1B	122 20.822
C4	0728	1B	47 33.980
F4	0728	1B	122 20.833

Deployment Cont'd 08-30-04

Trap #	Time	Subarea	Coords (Lat/Long)
C5	0750	1C	47 33.688
F5	0750	1C	122 20.804
C6	0753	1C	47 33.587
F6	0753	1C	122 20.756
C7	0815	1D	47 33.761
F7	0815	1D	122 20.764
C8	0822	1D	47 33.731
F8	0822	1D	122 20.751
C9	0830	1E	47 33.485
F9	0830	1E	122 20.697
C10	083~~5~~	1E	47 33.391
F10	0835	1E	122 20.632
C11	0840	1F	47 33.519
F11	0840	1F	122 20.643
C12	0843	1F	47 33.422
F12	0843	1F	122 20.5~~34~~ 316

08-30-04

Retrieval phase

Trap#	Time:	Area 1A
C1	0940	
F1	0942	

Catch:

F1: non target
1- slender F 8cm
target
2- sculpin
3- slender

C1: target
4- slender
1- dung

08-30-04

Retrieval phase

Trap#	time:	Area 1A
C2	0957	
F2	0954	

Catch:

F2
target
2-sculpin
3-slender
non target
3-slender <8
-1F, 2M

C2
target
2-slender
1-dung

trap#	time:	Area 1B
C3	1009	
F3	1006	

Catch:

F3
target
1-slender

C3: target
1-dung
2-redrock

non target
1-sunflower star

1- slender F

8/30/04

Trap: time: Area 1B
C4 1026
F4 1020

Catch:

F4 target	F4 nontarget	C4 target	C4 nontarget
1-slender 1-red rock	∅	1-redrock	∅

Trap: time: Area 1C
C5 1033
F5 1035

Catch:

F5 target	F5 nontarget	C5 target	C5 nontarget
2-sculpin	3-slender, <8cm └ 2F, 1M	∅	1-slender, F, <8cm

Retrieval Phase 8/30/04

Trap: time: Area 1C
C6 1044
F6 1042

Catch:

F6 target	F6 nontarget	C6 target	C6 nontarget
1-sculpin 4-slender	1-slender, M <8cm	1-dung	1-sunflower seastar

Trap: time: Area 1D
C7 1121
F7 1119

Catch:

F7 target	F7 nontarget	C7 target	C7 nontarget
3-sculpin 3-slender	3-slender M, <8cm	1-slender	∅

8/30/04

Trap# time: Area 1D
C8 1133
F8 1132

Catch
F8

target	nontarget
4-sculpin 7-slender	2-slender <8cm, 1M, 1F

C8

target	nontarget
2-slender	1-slender <8cm, M

Trap # time: Area 1E
C9 1144
F9 1145

Catch
F9

target	non-target
6-slender	1-slender M, <8cm

C9

target	non-target
Ø	1-slender F, <8cm

8/30/04

Trap# time Area 1E
C10 1152
F10 1154

Catch:
F10

target	nontarget
4-sculpin -slender	slender

C10 - nothing

Trap # time: Area 1F
C11 1202
F11 1205

Catch:
F11

target	nontarget
2-slender	4-slender M, <8cm

C11 -

target	nontarget
2-slender	Ø

Retrieval Phase 8/30/04

Trap#	time:	Area 1F
C12	1220	
F12	1222	

catch:

F12 target	F12 non target	C12 target	C12 non target
8-slender	11-slender <8cm	1-slender	1-slender F, <8cm

1230 return to 1st Ave S. Boat Launch to unload gear + re-fuel boat

RAC
08/30/04

08-31-04 LDW RI Fish + Crab Chemistry

Crab collection effort

Crew: Bob Complin
Derek Pelletier
Maryann Welsch

Weather: clear, Sunny, warm

0600 Arrive windward to load gear
0700 meet at 1st Ave boat launch
0745 on water, Heading to Area 2

Deployment Phase

Trap#	time	Subarea	Coords
~~C13/S13~~ C13/S13	0758	2A	47 32.671
		2A	122 20.264
~~C14/S2~~ C14/S14	0801	2A	47 32.767
			122 20.316
~~C3/S3~~ C15/S15	0808	2B	47 32.835
			122 20.281
~~C4/S4~~ C16/S16	0813	2B	47 32.770
			122 20.215
~~C5/S5~~ C17/S17	0820	2C	47 32.575
			122 20.159
~~C6/S6~~ C18/S18	0825	2C	47 32.479
			122 20.024

08-31-04

Deployment Phase Cont'd

Trap#	Time	Substrate	Coords
C19/S19	0840	2D	47 32.538
		~~2D~~	122 19.965
C20/S20	0845	2D	47 32.602
		~~2D~~	122 20.139
C21/S21	0850	2E	47 32.370
			122 19.858
C22/S22	0853	2E	47 32.397
			122 19.907
C23/S23	0856	2F	47 32.391
			122 19.823
C24/S24	0902	2F	47 32.364
			122 19.741

Retrieval Phase

RETRIEVAL PHASE 8/31/04

TRAP	TIME	AREA
C13	1010	2A
S13	1012	

CATCH

C13 target	C13 non-target	S13 target	S13 non-target
3 Slenders	5 Slenders 4 (4F, 1M)	3 Sculpin 1 Slender	1 Shiner

TRAP	TIME	AREA
C14	1021	2A
S14	1023	

CATCH

C14	S14

TARGET	NON-TARGET	TARG	NON
1 RR	1 Slen (F)	6 Sculpin	
1 Slen		(1 Sculpin fell over)	
		~~1 Slender~~ too small	(male)

8-31-04

TRAP	TIME	AREA
C15	1030	2B
S15	1037	

CATCH

C15

TARGET	NON-TARGET	S15 TARGET	NON-TARGET
~~NONE~~ 1 Slender(M)	~~1 Slender(M)~~ 1 Sunflower sea-star	NONE	(1 Slender fish eaten)(M) 1 Slender(F)

TRAP	TIME	AREA
C16	1040	2B
S16	1042	

CATCH

C16

TARGET	NON	S16 TARG	NON
NONE	1 Slender (M) 1 Slender (F)	1 Slender	

TRAP	TIME	AREA
C17	1050	2C
S17	1048	

CATCH

C17

TARGET	NON TARGET	S17 TARGET	NON TARGET
1 Slender	2 Slender (1F, 1M)	2 Sculpin 5 Slender	9 Slender

TRAP	TIME	AREA
C18	1059	2C
S18	1101	

CATCH

C18

TARGET	NON TARGET	S18 TARGET	NON TARGET
	1 Slender(F)	1 Sculpin 1 Slender	

8-31-04

TRAP	TIME	AREA
C19	1221	2D
S19	1224	

CATCH
C19

TARGET	NON TARGET	S19 TARGET	NON-TARGET
—	— (1 slender, F) lost	8 sculpin 4 slender	9 slender

TRAP	TIME	AREA
C20	1234	2D
S20	1235	

CATCH
C20

TARGET	NON TARGET	S20 TARGET	NON TARGET
—	1 slender (in)	1 sculpin 1 slender	2 slender

TRAP	TIME	AREA
C21	1243	2E
S21	1245	

CATCH
C21

TARGET	NON TARGET	S21 TARGET	NON TARGET
2 slender	(1 slender lost)	(1 slender lost) (carapace cracked due to brick) 3 sculpin 1 slender	—

TRAP	TIME	AREA
C22	1252	2E
S22	1253	

CATCH
C22

TARGET	NON TARGET	S22 TARGET	NON TARGET
1 slender	—	2 sculpin 1 slender	1 slender

8-31-04

TRAP	TIME	AREA
C23	1300	2F
S23	1304	

CATCH

C23

TARGET	NON TARGET	S23 TARGET	NON-TARGET
1 slender	2 slender (EM)	7 slender	1 shiner 4 slender

TRAP	TIME	AREA
C24	1307	2F
S24	1309	

CATCH

C24

TARGET	~~NON-TARGET~~	S24 TARGET	NON-TARGET
		~~1 slender~~ 3 sculpin	2 slender

09-01-04 LDW RI Fish + Crab Chemistry

Crab Collection effort

Crew Bob Complita
Maryann Welch
Adam Lindquist (WDFW)

Weather - clear, Sunny, patchy clouds, wind 5-10 mph

1030 Arrive 1st Ave S. Boat Launch to meet Adam + Load gear

1130 on water, heading to Area 1

Deployment Phase

Trap #	Time	Subarea	Coords	
C25	1145	1A	47	33.970
S25	1145		122	20.932
C26	1150	1A	47	33.780
S26			122	20.856
C27	1159	1B	47	33.853
S27			122	20.808
C28	1207	1B	47	33.991
S28			122	20.865

09-01-04

Deployment Cont'd

Trap #	Time	Subarea	Coords
C29	1215	1C	47 33.717
S29			122 20.815
C30	1220	1C	47 33.655
S30			122 20.785
C31	1250	1D	47 33.741
S31			122 20.750
C32	1255	1D	47 33.626
S32			122 20.700
C33	1300	1E	47 33.535
S33			122 20.722
C34	1307	1E	47 33.456
S34			122 20.673
C35	1312	1F	47 33.470
S35			122 20.616
C36	1315	1F	47 33.415
S36			122 20.446

Retrieval Phase

09-01-04

TRAP	TIME	AREA
C25	1435	1A
S25	1437	

CATCH

C25 S25

TARGET	NON TARGET	TARGET	NON TARG
2 Slender	1 Slender (m	3 Sculpin	—

TRAP	TIME	AREA
C26	1448	1A
S26	1448	

CATCH (tangled)

C26 S26

TARG	NON TARG	TARG	NON TARG
1 Slender	1 Slender (m)	6 Slender	—
1 Dungy			

09-01-04

TRAP	TIME	AREA
C27	1458	1B
S27	1500	

CATCH

C27		S27	
TARGET	NON	TARGET	NON
2 slenders 1 DUNG	1 slend(M)	1 slender 2 sculpin	1 slender(m) 1 slender(m)

TRAP	TIME	AREA
C28	1508	1B
S28	1511	

CATCH

C28		S28	
TARGET	NON	TARGET	NON
12 DUNG	—	1 slender 1 sculpin	—

09-01-04

TRAP	TIME	AREA
C29	1526	1C
S29	1528	

CATCH

C29		S29	
TARGET	NON	TARGET	NON
5 slender 1 DUNG 2 RR	—	1 RR 2 sculpin 3 slender	1 slend(F) 1 slend(m)

TRAP	TIME	AREA
C30	1535	1C
S30	1540	

CATCH

C30		S30	
TARGET	NON	TARGET	NON
1 slender 6 DUNG	—	2 slender 1 sculpin	—

09-01-04

TRAP	TIME	AREA
C31	1617	1D
S31	1618	

CATCH

C31		S31	
TARGET	NON	TARGET	NON
1 RR	1 slender(m)	6 sculpin	2 slender(F)
		4 slender	2 slender(m)
			2 slender(m)
			1 northern sculpin

TRAP	TIME	AREA
C32	1627	1D
S32	1626	

CATCH

C32		S32	
TARGET	NON	TARGET	NON
4 slender	1 slender F	5 slender	2 slender (1M 1F)

TRAP	TIME	AREA
C33	~~1617~~ 1634	1E
S33	~~1618~~ 1632	

CATCH

C33		S33	
TARGET	NON	TARGET	NON
2 slender	—	6 slender	3 slender (all M)
		2 sculpin	

TRAP	TIME	AREA
C34	1639	1E
S34	1640	

catch:

C34		S34	
TARGET	NON	TARGET	NON
—	—	2 slender	3 slender (2M, 1F)
EMPTY		4 sculpin	

09-01-04

TRAP	TIME	AREA
C35	1645	1F
S35	1648	

catch

C35

TARGET	NON
2 slenders 1 DUNG	4 slender (2M, 2F)

S35

TARGET	NON
9 slender	1 shiner perch 2 slender M 1 slend F

TRAP	TIME	AREA
C36	1653	1F
S36	1654	

CATCH:

C36

TARGET	NON
13 slender	1 slender F

S36

TARGET	NON
3 slender 4 sculpin	1 slender (M)

End of Sampling for the day

1715 Return to 1st Ave S. to unload gear.

09-02-04 LDW-RI Fish + Crab Chemistry

Crab Collection effort

Crew Bob Compiltn
Tad Doshler
Adam Lindquist (WDFW)

Weather: Sun, clouds

0800 Arrive 1st Ave S. Boat Launch to load gear.

0840 on water Heading to Area 2

Deployment Phase

Trap #	Time	Subarea	Coords
C37	0850	2A	47 32.739
S37			122 20.300
C38	0856	2A	47 32.645
S38			122 20.251
C39	0903	2B	47 32.758
S39			122 20.203
C40	0907	2B	47 32.719
S40			122 20.257
C41	0913	2C	47 32.595
S41			122 20.192

09-02-04

Deployment Cont'd.

Trap#	Time	Subarea	Coords
C42	0920	2C	47 32.547
S42			122 20.131
C43	0937	2D	47 32.622
S43			122 20.159
C44	0943	2D	47 32.530
S44			122 19.998
C45	0949	2E	47 32.409
S45			122 19.930
C46	0956	2E	47 32.305
S46			122 19.783
C47	1002	2F	47 32.371
S47			122 19.803
C48	1008	2F	47 32.441
S48			122 19.899

RAC

09-02-04

Trap	Time	Area
C38	1133	2A
S38	1134	2A

Catch

C38

Target	Non
4 Slender	5 Slender (3M, 2F)

S38

Target	Non
2 Slender 3 Sculpin	1 Shiner 1 Slender (1M)

Trap	Time	Area
C37	1146	2A
S37	1147	2A

Catch

C37

Target	Non
2 Slender 1 Rockfish	Ø

S37

Target	Non
~~3~~ 2 Slender	3 Slender (2M, 1F) 1 Shiner 1 Slender (1M)

Retrieval cont'd 09-02-04

Trap	Time	Area
C39	1158	2B
S39	1159	2B

Catch:

C39 Target	NON	S39 Target	NON
1 Slender	Ø	Ø	2 Slender (2M)

Trap	Time	Area
C40	1205	2B
S40	1206	2B

Catch:

C40 Target	NON	S40 Target	NON
4 slender 1 Cabrock	Ø	4 Sculpin 9 Slender	1 Slender (1M)

Retrieval cont'd 09-02-04

Trap	Time	Area
C41	1218	2C
S41	1219	2C

Catch

C41 target	NON	S41 target	NON
1 Slender	2 Slender (2F)	3 Sculpin	1 Slender (1M)

Trap	Time	Area
C42	1228	~~2D~~ 2C
S42	1230	~~2D~~ 2C

Catch

C42 target	NON	S42 Target	NON
Ø	Ø	~~3 Sculpin~~ 3 Slender 1 Sculpin	~~1 Slender (1M)~~ 4 Slender (2M, 2F)

09-02-04 Retrieval cont'd

Trap	Time	Area
C43	1330	2D
S43	1332	2D

Catch

C43 Target	NON	S43 Target	NON
2 Slender	Ø	2 Sculpin 1 Slender	1 Slender (1M)

Trap	Time	Area
C44	13:38	2D
S44	13:40	2D

Catch

C44 Target	NON	S44 Target	NON
1 Slender	1 Slender (1M)	1 Sculpin	6 Slender (3M, 3F)

09-02-04 Retrieval cont'd

Trap	Time	Area
C45	1348	2E
S45	1350	2E

Catch

C45 Target	NON	S45 Target	NON
1 Slender	1 Slender (1F)	1 Sculpin 4 Slender	3 Slender (2M, 1F)

Trap	Time	Area
C46	1358	2E
S46	1402	2E

Catch

C46 Target	NON	S46 Target	NON
1 Dungeness	Sunstar (pisaster) 1 Slender (1M)	6 Slender 4 Sculpin	4 Slender (4M)

09-02-04 Retrieval Cont'd.

Trap	Time	Area
C47	~~2H~~ 1411	2F
S47	1411	2F

Catch

C47 Target	NON	S47 Target	NON
1 Slender	Ø	1 Sculpin 2 Slenders	Ø

Trap	Time	Area
C48	1419	2F
S48	1422	2F

Catch

C48 Target	NON	S48 Target	NON
Ø	1 Slender (1 n)	1 Slender 2 Sculpin	Ø

09-02-04

End of Sampling day

1430 Return to 1st Area S.
Boat launch to unload gear.

RAC
09-02-04

09-03-04 LDW RI Fish + Crab Chemistry
Crab collection effort

Crew Bob Complitn
Derek Pelletier
Joanna Florer

Weather overcast + Sun

0715 Arrive 1st Ave S. boat Launch
to load gear

0745 on water heading to Area 3

Deployment Phase

Trap#	Subarea	Time	Coords
C49	3B	0800	47 31.956
S49			122 19.152
C50	3B	0807	47 31.893
S50			122 19.042
C51	3D	0812	47 31.796
S51			122 18.891
C52	3D	0814	47 31.747
S52			122 18.797
C53	3F	0818	47 31.707
S53			122 18.722
C54	3F	0821	47 31.627
S54			122 18.593

09-03-04

Deployment Phase Cont'd.

Trap #	Subarea	Time	Coords
C55	3E 0853	47 31.631	
S55		122 18.652	
C56	3E 0859	47 31.699	
S56		122 18.762	
C57	3C 0903	47 31.728	
S57		122 18.810	
C58	3C 0907	47 31.760	
S58		122 18.886	
C59	3A 0911	47 31.856	
S59		122 19.053	
C60	3A 0916	47 31.917	
S60		122 19.159	

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09-03-04

Retrieval Phase

Trap	Time	Area
C49	1117	3B
S49	1119	3B

Catch

C49 Target	NON	S49 Target	NON
1 Dung.	Ø	Ø	1 gunnel (Saddleback)

Trap	Time	Area
C50	1124	3B
S50	1124	3B

Catch

C50 Target	NON	S50 Target	NON
1 Dung.	1 Slender (1 M)	4 Sculpin	Ø

Trap	Time	Area
C51	1132	3D
S51	1132	3D

Catch

C51 Target	NON	S51 Target	NON
Ø Empty TRAP	Ø	1 Sculpin 1 Slender	Ø

Trap	Time	Area
C52	1139	3D
S52	1143	3D

Catch

C52 Target	NON	S52 Target	NON
1 Slender	Ø	1 Sculpin	Ø

09-03-04

Trap	Time	Area
C53	1150	3F
S53	1153	3F

Catch

C53

Target	NON
1 Slender	Ø

S53

Target	NON
1 Slender	3 Sculpin 2 Slender (2M) 1 >200 1 150-200 1 100-150

Trap	Time	Area
C54	1156	3F
S54	1157	3F

Catch

C54

Target	NON
1 Slender	2 Slender (1F, 1M)

S54

Target	NON
Ø	2 Sculpin 1 100-150 1 150-200

09-03-04

Trap	Time	Area
C55	1222	3E
S55	1223	3E

Catch

C55

Target	NON
1 Dung	Ø

S55

Target	NON
1 Slender	2 Slender (2M) 4 Sculpin (4 >200)

Trap	Time	Area
C56	1228	3E
S56	1229	3E

Catch

C56

Target	NON
1 Dung	Ø

S56

Target	NON
Ø Empty Trap	Ø

09-03-04

Trap	Time	Area
C57	1231	3C
S57	1233	3C

Catch C57 Target	NON	S57 Target	NON
Ø	1 Slender (1 M)	Ø	2 Slender (2 M)

Trap	Time	Area
C58	1238	3C
S58	1236	3C

Catch C58 Target	NON	S58 Target	NON
Ø Empty Trap	Ø	Ø Empty Trap	Ø

09-03-04

Trap	Time	Area
C59	1243	3A
S59	1244	3A

Catch C59 Target	NON	S59 Target	NON
Ø Empty Trap	Ø	Ø Empty Trap	Ø

Trap	Time	Area
C60	1247	3A
S60	1248	3A

Catch C60 Target	NON	S60 Target	NON
Ø Empty Trap	Ø	4 Sculpin 3 Slender	4 Slender (4 M)

END of Sampling Day 1255 RAC

09-07-04 LDW RI Fish + Crab Chemistry
Crab collection effort

Crew Bob Complita
Mike Johns
Doug Hotchkiss (POS)

Weather Sun, clear, no wind

0900 on water heading to Area 4

Deployment phase

Trap #	Time	Subarea	Coords
C~~60~~61	0923	4A	47 31.073
S~~60~~61	0923	4A	122 18.388
C62	0927	4A	47 30.999
S62	0927	4A	122 18.368
C63	0930	4B	47 31.015
S63	0930	4B	122 18.312
C64	0933	4B	47 31.106
S64	0933	4B	122 18.331
C65	0939	4C	47 30.814
S65	0939	4C	122 18.293
C66	0943	4C	47 30.757
S66	0943	4C	122 18.262

Deployment Phase Cont'd

Trap #	Time	Subarea	Coords
C67	1023	4D	47 30.813
S67	1023	4D	122 18.243
C68	1025	4D	47 30.764
S68	1025	4D	122 18.171
C69	1029	4E	47 30.730
S69	1029		122 17.972
C70	1032		47 30.714
S70	1032		122 17.910
C71	1034		47 30.691
S71	1034		122 17.856
C72	1038		47 30.649
S72	1038		122 17.761

Retrieval Phase

Trap	Time	Area
C61	1255	4A
S61	1255	4A

Catch

C61	Target	Non	S61	Target	Non
	Ø	1 Slender		2 Slender ~~4 Sculpin~~	~~Ø~~ 9 Sculpin (all 100 ice)

09-07-04

Retrieval Phase Cont'd.

Trap	Time	Area
C62	1307	4A
S62	1307	4A

Catch

C62 Target	C62 Non	S62 Target	S62 Non
Ø	Ø	Ø	Ø

Both Traps Empty

Trap	Time	Area
C63	1310	4B
S63	1311	4B

Catch

C63 Target	C63 Non	S63 Target	S63 Non
Ø	1 Slender (1 M)	1 Sculpin	Ø

Trap	time	Area
C64	1316	4B
S64	1317	4B

catch

C64 Target	C64 Non	S64 Target	S64 Non
1 Dung.	1 Slender (1 M)	1 Slender 1@200mm, 1@120mm	1 Slender (1 M) 2 Sculpin

09-07-04

Trap	Time	Area
C65	~~1316~~ 1325	4C
S65	~~1317~~ 1325	4C

Catch

C65 Target	C65 Non	S65 Target	S65 Non
~~1 Dung~~ Ø	Ø	Ø	Ø

Trap	Time	Area
C66	1330	4C
S66	1331	4C

Catch

C66 Target	C66 Non	S66 Target	S66 Non
Ø	Ø	Ø	Ø

Trap	time	Area
C67	1334	4D
S67	1335	4D

catch

C67 Target	C67 Non	S67 Target	S67 Non
Ø	Ø	Ø	1 Sculpin

(50-100 Northern Sculpin)

Field Notes 0189

48 09-07-04

Trap	Time	Area
C68	1339	4D
S68	1340	4D

Catch

C68 Target	NON	S68 Target	NON
Ø	Ø	Ø	1 Sculpin (100-150)

Trap	Time	Area
C69	1345	4E
S69	1345	4E

Catch

C69 Target	NON	S69 target	NON
Ø	Ø	1 Sculpin	Ø

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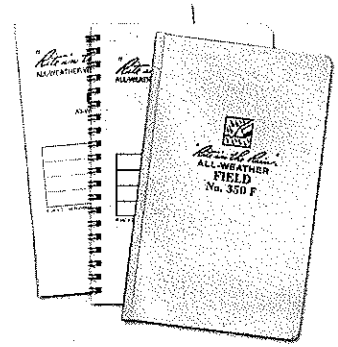
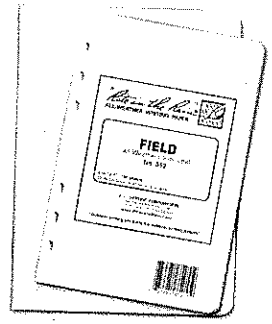
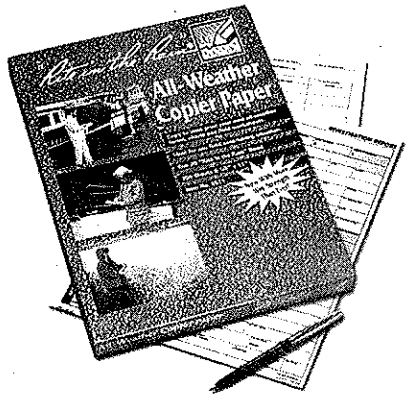


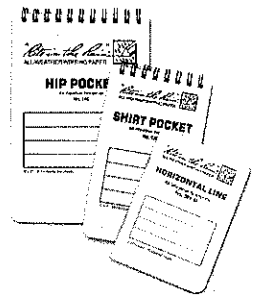
Bound Books / Notebooks



Loose Leaf / Binders



Copier Paper / All-Weather Pens



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Project # 04-08-06-22
LDW RI - Fish and Crab Chemistry
LDW Crab/Shrimp Trap Collection Effort
~~08-30-04~~ 09-07-04 to 09-10-04

4 5/8" x 7" - 48 Numbered Pages

Book 2 of 2

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CONTENTS

PAGE	REFERENCE	DATE

09-07-04

LDW RI Fish + Crab Chemistry

Crab collection effort cont'd.

Retrieval Cont'd.

Trap	Time	Area
C70	1351	4E
S70	1352	4E

Catch

C70		S70	
Target	Non	Target	Non
Ø	Ø	1 Sculpin	Ø

Trap	Time	Area
C71	1356	4E
S71	1357	4E

Catch

C71		S71	
Target	Non	Target	Non
Ø	Ø	1 Sculpin	Ø

09-07-04

Trap	Time	Area
C72	1402	4E
S72	1403	4E

Catch

C72		S72	
Target	Non	Target	Non
Ø	Ø	Ø	Ø

End of Sampling

1420 Return to 1st Ave S Boat Launch to unload gear

RAC

09-08-04 LDW RI Fish + Crab Chemistry
Crab Collection Cont'd.

Crew Bob Complith
Jonna Florer
Sara Stillman

Weather Sunny

0730 on water heading to Areas 3+4 after loading gear @ 1st Ave S. boat launch

Deployment Phase

Trap #	Time	Subarea	Coords
C73	0807	4A	47 31.092
S73	"	4A	122 18.397
C74	0813	4A	47 31.043
S74	"	4A	122 18.373
C75	0817	4B	47 31.112
S75	"	4B	122 18.302
C76	0822	4B	47 31.104
S76	"	4B	122 18.348
C77	0831	4C	47 30.832
S77	"	4C	122 18.302

09-08-04

Deployment Phase Cont'd.

Trap #	Time	Subarea	Coords
C78	0835	4C	47 30.855
S78	"	4C	122 18.315
C79	0909	4D	47 30.792
S79	"	4D	122 18.224
C80	0912	4D	47 30.835
S80	"	4D	122 18.250
C81	0917	4E	47 30.735
S81	"		122 17.975
C82	0920		47 30.724
S82	"		122 17.940
C83	09:24		47 30.711
S83	"		122 17.898
C84	09:27		47 30.691
S84	"		122 17.863

Retrieval Phase

Trap	Time	Area
C73	1050	4A
S73	1050	4A

Catch

	Target	NoN		Target	NoN
C73			S73		1-shiner 4-sculpin 1-SC(M)

empty

09-08-04

Trap	time	Area
C74	1050	4A
S74	1050	4A

Catch

C73 - empty

S73 - target: Ø

non target
2-sculpin
1-(100-152)
1-(50-100)

Trap	time	Area
C75	1105	4B
S75	1107	4B

catch

C73-empty

S73 - target: Ø

non target
3-sculpin
1 (100-150)
2 (50-100)

Trap	time	Area
C76	1110	4B
S76	1112	4B

Catch

C-76 -empty

S76 -target: Ø

nontarget
3-Sculpin
1-(150-260)
2 (50-100)

09-08-04

Trap	time	Area
C77	1118	4C
S77	1119	4C

Catch

~~C77~~ - empty
C77

~~S77~~ -target
S77 Ø

nontarget
3-sculpin
(50-100)

Trap	time	Area
C78	1127	4C
S78	1123	4C

catch

C78 -empty

S78 - target: Ø

non target
5-Sculpin
4(50-100)
1 (100-150)

Trap	time	Area
C79	1133	4D
S79	1131	4D

catch

~~C78~~ C79 -empty

S79-target: Ø

nontarget
1-sculpin
(50-100)

Trap	time	Area
C80	1138	4D
S80	1138	4D

Catch

C80 - empty

S80 - target: Ø

nontarget
1-Sculpin
(150-200)

09-08-04

Trap	time	Area
C81	1148	4E
S81	1151	4E

Catch

C81 - empty	S81 - target 2-sculpin	non target Ø

Trap	time	Area
C82	1155	4E
S82	1156	4E

Catch

C82 - empty	S82 - target 1-sculpin	non target Ø

Trap	time	Area
C83	1200	4E
S83	1201	4E

Catch

C83 - empty	S83 - target 1-shiner	non target Ø

Trap	time	Area
C84	1207	4E
S84	1207	4E

Catch

C84 empty	S84 target 2-sculpin	non target Ø

12:45 Return to 1st Ave S. Boat launch to refuel boat + unload gear

End of Sampling day

RAC

09-08-04

09-09-04 LDW RI Fish and Crab Chemistry

Crab Collection Effort Cont'd

Crew Bob Complin
Joanna Flores
Sara Stillman

Weather Overcast, drizzle

1000 on water heading to Area 3
after loading boat @ 1st Ave S. Boat Launch

Deployment Phase

Trap #	Time	Subarea	Coords
C85	1035	3A	47 31.972
S85	1035	"	122 19.262
C86	1041	3A	47 31.867
S86	1041	"	122 19.071
C87	1047	3B	47 31.919
S87	1047	"	122 19.086
C88	1051	3B	47 31.991
S88	1051	"	122 19.212
C89	1057	3C	47 31.787
S89	1057	"	122 18.926

Deployment Cont'd

Trap #	Time	Subarea	Coords
C90	1100	3C	47 31.723
S90	1100	"	122 18.813
C91	1105	3D	47 31.832
S91	1105	"	122 18.941
C92	1110	3D	47 31.743
S92	1110	"	122 18.776
C93	1114	3E	47 31.679
S93	1114	"	122 18.741
C94	1120	3E	47 31.645
S94	1120	"	122 18.700
C95	1125	3F	47 31.676
S95	1125	"	122 18.673
C96	1128	3F	47 31.586
S96	1128	"	122 18.563

Retrieval Phase

Trap	time	Area
C85	1309	3A
S85	1309	3A

Catch

C85		S85	
target	nontarget	target	nontarget
1-SC(M)	2-SC(M)	2-Sculpin	1-SC(M)

09-09-04

Trap	time	Area
C86	1318	3A
S86	1319	3A

Catch:

C86-target 1-SC | nontarget Ø

S86-empty

Trap	time	Area
C87	1323	3B
S87	1324	3B

Catch:

C87-target 1-SC | nontarget Ø | S87-target 1-SC | nontarget Ø

Trap	time	Area
C88	1330	3B
S88	1330	3B

Catch:

C88 target 1-SC | nontarget Ø | S88-target Ø | nontarget 1-PS

Trap	time	Area
C89	1337	3C
S89	1339	3C

Catch target Ø
C89 nontarget - 1SC(M) | S89 - empty

09-09-04

Trap	time	Area
C90	1346	3C
S90	1343	3C

Catch

C90-target Ø | nontarget Ø | S90-target 4-PS | nontarget 1-SC(M) <9cm

Trap	time	Area
C91	1352	3D
S91	1354	3D

Catch

C91-empty | S91-target 1-SC | nontarget 2-PS (100-150) + (50-100)

Trap	time	Area
C92	1402	3D
S92	1403	3D

Catch

C92-target 1-DC | nontarget Ø | S92-target 2-SC | nontarget 2-PS <100 + 100-150

Trap	time	Area
C93	1410	3E
S93	1412	3E

Catch:

C-93-empty | S92-target Ø | nontarget 8-PS

09-09-04

Trap	time	Area
C94	1416	3E
S94	1418	3E

Catch

C94 - empty	S94 - target	nontarget
	2-SC	3-SC (M) <9cm

Trap	time	Area
C95	1423	3F
S95	1424	3F

Catch

C95 - empty	S95 - target	nontarget
	Ø	1-PS (100-150)

Trap	time	Area
C96	1432	3F
S96	1429	3F

Catch

C96 - target	nontarget	S96 - target	nontarget
1-DC	Ø	1-SC	2-PS (100-150) 3-SC (M)

End of Sampling Day
1500 Return to 1st Ave S Boat Launch to un-load gear.

END

RAC 09-09-04

LDW RI Fish + Crab Chemistry 09-10-04

Crab Collection Effort Cont'd.

Crew Bob Complita
Sam Stillman
Helen Marsh

Weather Sunny / Hazy

1215 On water from 1st Ave S. Boat launch heading to area 3

Deployment Phase

Trap #	Time	Subarea	Coords
C97	1235	3A	4731.960
S97	1235	"	122 19.217
C98	1239	3A	47 31.906
S98	1239	"	122 19.123
C99	1244	3B	47 31.934
S99	1244	"	122 19.111
C100	1248	3B	47 31.941
S100	1248	"	122 19.125
C101	1254	3D	47 31.842
S101	1254	"	122 18.955
C102	1300	3D	47 31.735
S102	1300	"	122 18.7[illegible]

09-10-04

Deployment Cont'd

Trap #	Time	Subarea	Coords
C103	1304	3D	47 31.747
S103	1304	"	122 18.794
C104	1308	3E	47 31.657
S104	1308	"	122 18.695
C105	1313	3E	47 31.612
S105	1313	"	122 18.626
C106	1316	3F	47 31.642
S106	1316	"	122 18.623
C107	1320	3F	47 31.612
S107	1320	"	122 18.572
C108	1325	3F	47 31.685
S108	1325	"	122 18.683

Retrieval Phase

Trap	Time	Area
C97	~~1308~~ 1510	3A
S97	~~[illegible]~~ 1510	3A

Catch

C97 Target	NON	S97 Target	NON
Ø	Ø	4 SC male	~~[illegible]~~ 2 SC-(2M)

09-10-04

Retrieval Cont'd.

Trap	Time	Area
C98	15:16	3A
S98	15:19	3A

Catch

C98 Target	NON	S98 Target	NON
1 SC	Ø	Ø	1 SC (1F)

Trap	Time	Area
C99	15:21	3B
S99	15:21	3B

Catch

C99 Target	NON	S99 Target	NON
0	0	0	0

Trap	Time	Area
C100	15:24	3B
S100	15:24	3B

Catch

C100 Target	NON	S100 Target	NON
0	0	0	1 PS (200-250)

09-10-04 Rotational Cont'd

Trap	Time	Area
C101	15:31	3D
S101	15:31	3D

Catch

C101 target	C101 Non	S101 target	S101 Non
0	0	0	0

Trap	Time	Area
C102	15:36	3D
S102	15:36	3D

Catch

C102 target	C102 Non	S102 target	S102 Non
0	0	25C-(2M)	0

Trap	Time	Area
C103	15:40	3D
S103	15:40	3D

Catch

C103 Target	C103 Non	S103 target	S103 Non
0	0	25C (2M)	35C-(3m)

09-10-04

Trap	Time	Area
C104	15:46	3E
S104	15:46	3E

Catch

C104 Target	C104 Non	S104 Target	S104 Non
1DC	0	0	1SC (M)

Trap	Time	Area
C105	15:50	3E
S105	15:54	3E

Catch

C105 Target	C105 Non	S105 target	S105 Non
0	0	0	0

Trap	Time	Area
C106	15:58	3F
S106	15:58	3F

Catch

C106 target	C106 Non	S106 Target	S106 Non
0	0	0	1PS (100-150)

09-10-04

Trap	Time	Area
C107	16:02	3F
S107	16:04	3F

Catch

C107 Target	Non	S107 target	Non
1DC	1SC (1M)	1SC	1SC (1M)

Trap	Time	Area
C108	16:10	3F
S108	16:10	3F

Catch

C108 Target	Non	S108 target	Non
1DC	0	1SC (M)	3PS

End of Sampling Day

End of LDW Crab Sampling

RAC
9/10/04

10-07-04 LDW RI Fish + Crab Chemistry

Shrimp trap Retrieval

Trap	Retrieval Time	Target	Non-target Sp.
EP ST 19	1741	Ø	1 Redrock (RC)
EP ST 20	1743	Ø	1RC, 2SC, 1PS
EP ST 21	1746	Ø	1RC, 1SC
EP ST 22	1749	Ø	2 SC
EP ST 23	1752	Ø	1 SC
EP ST 24	1756	1SC	Ø

Done Sampling for the Day 1800
Heading back to Fishermans Terminal

1930 Arrive Fishermans Terminal to unload gear. Off water

End of Fish + Crab Collection Effort

RAC
10-07-04

'ittiwake
'rine Enterprises

C:\Documents and Settings\Charlie Eaton\My Documents\Data\BIO_

8/2/04

...ION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 43'	Depth: 43'	Depth: 30'
DGPS Latitude/Long. 33.978 20.836	DGPS Latitude/Long. 33.933' 20.831'	DGPS Latitude/Long. 33.742 20.758
DGPS Time: 11:20	DGPS Time: 11:21:33	DGPS Time: 11:26:33
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 250' Tide: 0.4 ↓		Distance Trawled = .20 nm Trawl Speed = 0.5'

2-1A

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 23	Depth: 20'	Depth: ?
DGPS Latitude/Long. 983 944	DGPS Latitude/Long. 33.959 20.937	DGPS Latitude/Long. 33.858' 20.898' Hang up.
DGPS Time: 1201	DGPS Time: 1202	DGPS Time: 1208
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175' Tide: -1.5'		Distance Trawled = .10 Trawl Speed = 191m. Hang up. Sheet piling

-1.6

3-1E

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 15'	Depth: 28'
DGPS Latitude/Long. 33.532 20.740	DGPS Latitude/Long. 506 714	DGPS Latitude/Long. 323 608
DGPS Time: 1307	DGPS Time: 1308	DGPS Time: 1313
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: ~~120~~ 100 150' Tide:		Distance Trawled = .20 Trawl Speed =

large Rock & Tire

-2.1

-2.1

4-1D

Page 2

STATION NO.

DATE: 8/3

I. Start Set	II. Start Tow	III. End
Depth: 31	Depth: 30 → 25	Depth: 36
DGPS Latitude/Long. 33.787 20.753	DGPS Latitude/Long. 744 742	DGPS Latitude/Long. 552 661
DGPS Time: 0750	DGPS Time: 0751	DGPS Time: 0757
Course over Ground (COG):	Course over Ground (COG): 146° Mag.	Magnetic Bearing:
Wire Out: 175' Tide: 9.3' High ebb		Distance Trawled = .20nm Trawl Speed = 9.3'

5-1U

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 44'	Depth: 42'	Depth: 28'
DGPS Latitude/Long. 33.789 20.849	DGPS Latitude/Long. 743 842	DGPS Latitude/Long. 537 739
DGPS Time: 0813	DGPS Time: 0814	DGPS Time: 0820
Course over Ground (COG):	Course over Ground (COG): 141° Mag.	Magnetic Bearing:
Wire Out: 200 Tide: 9.8' ↓		Distance Trawled = .20 Trawl Speed = 8.8'

6-1F

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 24'	Depth: 28' → 42'	Depth: 28'
DGPS Latitude/Long. 33.568 20.669	DGPS Latitude/Long. 534 642	DGPS Latitude/Long. 334 540
DGPS Time: 0837	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG): 140° Mag.	Magnetic Bearing:
Wire Out: 150' Tide: 8.3 ebb	→ 200	Distance Trawled = .21 Trawl Speed =

Sample lost

Lost

P.3

7-1-F

STATION NO. DATE: 8/3

I. Start Set	II. Start Tow	III. End
Depth: 23' 920'	Depth: 20' 43	Depth: 33
DGPS Latitude/Long. 33. 569 20. 657	DGPS Latitude/Long. 541 640	DGPS Latitude/Long. 337 538
DGPS Time: 0901	DGPS Time: 0902	DGPS Time: 0908
Course over Ground (COG):	Course over Ground (COG): 154° Mag.	Magnetic Bearing:
Wire Out: 150' → 200' Tide: 7.7		Distance Trawled = .21 nm Trawl Speed = 7.6

Hung up on retrieval

8-2B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 37'	Depth: 37'	Depth: 32'
DGPS Latitude/Long. 32. 861 20. 288	DGPS Latitude/Long. 822 270	DGPS Latitude/Long. 629 183
DGPS Time: 0938	DGPS Time: 0939	DGPS Time: 0945
Course over Ground (COG):	Course over Ground (COG): 141° Mag.	Magnetic Bearing:
Wire Out: 200' Tide: 6.4		Distance Trawled = .20 Trawl Speed = 6.3

9-2A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 39'	Depth: 37'	Depth: 23'
DGPS Latitude/Long. 32. 858 20. 359	DGPS Latitude/Long. 814 334	DGPS Latitude/Long. 620 224
DGPS Time: 1017	DGPS Time: 1019	DGPS Time: 1025
Course over Ground (COG):	Course over Ground (COG): 143° Mag	Magnetic Bearing:
Wire Out: 230' Tide: 4.9	4.9	Distance Trawled = .20? Trawl Speed = 4.7

P.4

10-2F

STATION NO. DATE: 8/3

I. Start Set	II. Start Tow	III. End
Depth: 23'	Depth: 25'	Depth: 20'
DGPS Latitude/Long. 32.503 19.979	DGPS Latitude/Long. .478 .943	DGPS Latitude/Long. .307 .702
DGPS Time: 1050	DGPS Time: 1051	DGPS Time: 1058
Course over Ground (COG):	Course over Ground (COG): 120° Mag. ↓ 107° Mag.	Magnetic Bearing:
Wire Out: 150' Tide: 3.5↓		Distance Trawled = .24 mm Trawl Speed = 3.7

large Steelhead

11-2E

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 23'	Depth: 20'	Depth: 22'
DGPS Latitude/Long. 32.480 20.007	DGPS Latitude/Long. 32.445 19.966	DGPS Latitude/Long. 32.273 19.722
DGPS Time: 11:15	DGPS Time: 11:17	DGPS Time: 11:23
Course over Ground (COG):	Course over Ground (COG): 116° Mag.	Magnetic Bearing:
Wire Out: 110' Tide: 2.5		Distance Trawled = .24 Trawl Speed = 2.1

lost sample

12-2E

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 21' → 15'	Depth: 22'
DGPS Latitude/Long. 32.459 19.987	DGPS Latitude/Long. 437 956	DGPS Latitude/Long. 273 720
DGPS Time: 1134	DGPS Time: 1135	DGPS Time: 1141
Course over Ground (COG):	Course over Ground (COG): 126°	Magnetic Bearing:
Wire Out: 150' Tide: 1.7		Distance Trawled = .23 Trawl Speed = 1.4

P-5

13-3A

STATION NO.

DATE: 8/3/04

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 13'	Depth: 14'
DGPS Latitude/Long. 31.985 19.271	DGPS Latitude/Long. 974 252	DGPS Latitude/Long. 830 003
DGPS Time: 1302	DGPS Time: 1302	DGPS Time: 1308
Course over Ground (COG):	Course over Ground (COG): up river 113° Mag.	Magnetic Bearing:
Wire Out: 75' Tide: -0.8 low		Distance Trawled = .22 nm Trawl Speed = -0.9' tide

14-3B

STATION NO.

DATE: 8/3

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 12'	Depth: 12'
DGPS Latitude/Long. 32.010 19.255	DGPS Latitude/Long. 31.988' 19.221'	DGPS Latitude/Long. 31.852 18.991
DGPS Time: 1321	DGPS Time: 1322	DGPS Time: 1327
Course over Ground (COG):	Course over Ground (COG): ~~140 → 145°~~ 131°	Magnetic Bearing:
Wire Out: 75' Tide: -1.0 low		Distance Trawled = .21 Trawl Speed = -1.0

15-3E

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 12'	Depth: 12'
DGPS Latitude/Long. 31.707 18.785	DGPS Latitude/Long. 693 759	DGPS Latitude/Long. 507 554
DGPS Time: 1341	DGPS Time: 1342	DGPS Time: 1348
Course over Ground (COG): 75'	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: -1.0' low	114° → 145°	Distance Trawled = .23 nm Trawl Speed = -1.0

16-3C

P.6

STATION NO.

DATE: 8/3

I. Start Set	II. Start Tow	III. End
Depth: 16'	Depth: 17'	Depth: 12'
DGPS Latitude/Long. 31.768' 18.896'	DGPS Latitude/Long. 31.782' 18.920'	DGPS Latitude/Long. 31.846' 19.034'
DGPS Time: 1414	DGPS Time: 1415	DGPS Time: 1418
Course over Ground (COG):	Course over Ground (COG): 292° mag.	Magnetic Bearing:
Wire Out: 100' Tide: -0.8 low fld.		Distance Trawled = .10 m Trawl Speed = -0.7'

17-3D

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 13'	Depth: 15'	Depth: 11'
DGPS Latitude/Long. 31.723' 18.756'	DGPS Latitude/Long. 31.732' 18.773'	DGPS Latitude/Long. 31.863' 19.004'
DGPS Time: 1429	DGPS Time: 1430	DGPS Time: 1435
Course over Ground (COG):	Course over Ground (COG): 295° M	Magnetic Bearing:
Wire Out: 100' Tide: -0.5 low flt.		Distance Trawled = .20 Trawl Speed = -0.4'

Trawled under Bridge

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

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DUW. Windward

18-2C (1)

STATION NO.

DATE: 8/4/04

I. Start Set	II. Start Tow	III. End
Depth: 23'	Depth: 27'	Depth: 34'
DGPS Latitude/Long. 32. 556 20. 147	DGPS Latitude/Long. 580 178	DGPS Latitude/Long. 653 253
DGPS Time: 0752	DGPS Time: 0753	DGPS Time: 0755
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175' Tide: 9.2 high	317°T	Distance Trawled = .09 Trawl Speed = 9.2'

19-2D

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 30	Depth: 28'	Depth: 34'
DGPS Latitude/Long. 32. 570 20. 105	DGPS Latitude/Long. 609 145	DGPS Latitude/Long. 660 206
DGPS Time: 0816	DGPS Time: 0817	DGPS Time: 0819
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175' Tide: 9.1		Distance Trawled = .07 Trawl Speed = 9.1

~~20-3F~~

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

(2)

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20-3F

STATION NO. DATE: 8/4

I. Start Set	II. Start Tow	III. End
Depth: 17	Depth: 19	Depth: 13
DGPS Latitude/Long. 31.729 18.747	DGPS Latitude/Long. 713 725	DGPS Latitude/Long. 510 506
DGPS Time: 0853	DGPS Time: 0854	DGPS Time: 0902
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125' Tide: 8.8		Distance Trawled = .25 Trawl Speed = 8.7

21-4A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 18'	Depth: 15'	Depth: 16'
DGPS Latitude/Long. 31.096 18.398	DGPS Latitude/Long. 31.083 18.394	DGPS Latitude/Long. 30.856 18.302
DGPS Time: 0951	DGPS Time: 0951	DGPS Time: 0958
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 7.6 ✓	166° T	Distance Trawled = .24 Trawl Speed = 7.4

22-4B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 11	Depth: 15	Depth: 10'
DGPS Latitude/Long. 31.045 18.320	DGPS Latitude/Long. 31.029 18.321	DGPS Latitude/Long. 30.871 18.257
DGPS Time: 1028	DGPS Time: 1029	DGPS Time: 1033
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 6.6	166° T	Distance Trawled = .16 Trawl Speed = 6.4

(3)

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23-4C

STATION NO.

DATE: 8/4/04

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 12'	Depth: 9.8
DGPS Latitude/Long. 30. 862 18. 310	DGPS Latitude/Long. 845 305	DGPS Latitude/Long. 721 222
DGPS Time: 1100	DGPS Time: 1101	DGPS Time: 1105
Course over Ground (COG): 45'	Course over Ground (COG): 150° → 115°	Magnetic Bearing:
Wire Out: Tide: 5.5	169T → 134°T	Distance Trawled = .14nm 263 meters Trawl Speed = 5.3 138°T - 163°T 258m.

24-4D

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15	Depth: 15'	Depth: 12'
DGPS Latitude/Long. 30. 868 18. 268	DGPS Latitude/Long. 857 264	DGPS Latitude/Long. 753 162
DGPS Time: 1219	DGPS Time: 1220	DGPS Time: 1224 Mud Ball
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 105T
Wire Out: 75' Tide: 2.8↓		Distance Trawled = Trawl Speed = 2.6

25-4D

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 12'	Depth: 12'	Depth: 12'
DGPS Latitude/Long. 30. 873 18. 267	DGPS Latitude/Long. 866 266	DGPS Latitude/Long. 756 172
DGPS Time: 1308	DGPS Time: 1308	DGPS Time: 1312
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50' Tide: 1.3	146 → 115M 165° → 134°T low ebb	Distance Trawled = 1.3nm 243m Trawl Speed = 1.2

26-1A

STATION NO.

DATE: 8/5/04

I. Start Set	II. Start Tow	III. End
Depth: 32'	Depth: 29'	Depth: 29'
DGPS Latitude/Long. 33.975 20.940	DGPS Latitude/Long. 930 930	DGPS Latitude/Long. ?
DGPS Time: 0753	DGPS Time: 0754	DGPS Time: ?
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200' Tide:		Distance Trawled = Trawl Speed =

923 918

Hung up.

27-1A

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 36'	Depth: 42'	Depth: 43'
DGPS Latitude/Long. 33.967 20.936	DGPS Latitude/Long. 923 918	DGPS Latitude/Long. 801 853
DGPS Time: 0809	DGPS Time: 0810	DGPS Time: 0814
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200' Tide:		Distance Trawled = .13 Trawl Speed =

Hung up.

28-1D

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 28'	Depth: 30'	Depth: 27'
DGPS Latitude/Long. 33.783 20.756	DGPS Latitude/Long. 754 744	DGPS Latitude/Long. 547 650
DGPS Time: 0850	DGPS Time: 0851	DGPS Time: 0857
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175 Tide: 8.5		Distance Trawled = .22 Trawl Speed =

8.6

29-1D

STATION NO. DATE: 8/5

I. Start Set	II. Start Tow	III. End
Depth: 38	Depth: 38	Depth: 32
DGPS Latitude/Long. 33.778 20.771	DGPS Latitude/Long. 740 757	DGPS Latitude/Long. 543 652
DGPS Time: 0914	DGPS Time: 0915	DGPS Time: 0921
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200' Tide: 8.6	High Tide	Distance Trawled = .21 nm Trawl Speed = 8.6

30-1D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 41	Depth: 37	Depth: 23
DGPS Latitude/Long. 767 775	DGPS Latitude/Long. 730 757	DGPS Latitude/Long. 543 642
DGPS Time: 0956	DGPS Time: 0957	DGPS Time: 1002 lost
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide: 8.3	8.3	Distance Trawled = Trawl Speed =

31-1D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 39	Depth: 38	Depth: 36
DGPS Latitude/Long. 777 778	DGPS Latitude/Long. 742 765	DGPS Latitude/Long. 543 661
DGPS Time: 1013	DGPS Time: 1014	DGPS Time: 1020
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide: 8.1		Distance Trawled = .21 Trawl Speed = 8.0

32-2D

STATION NO. DATE: 8/5

I. Start Set	II. Start Tow	III. End
Depth: 27	Depth: 29	Depth: 32
DGPS Latitude/Long. 32. 569 20. 108	DGPS Latitude/Long. 596 132	DGPS Latitude/Long. 669 207
DGPS Time: 1043	DGPS Time: 1044	DGPS Time: 1047
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175 Tide: 7.6		Distance Trawled = .09 Trawl Speed = 7.5

33 2F

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 28'	Depth: 29'	Depth: 24'
DGPS Latitude/Long. 32. 479 19. 945	DGPS Latitude/Long. 443 912	DGPS Latitude/Long. 289 677
DGPS Time: 1107	DGPS Time: 1108	DGPS Time: 1114
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200' Tide: 7.1	ebb	Distance Trawled = .22 Trawl Speed = 7.0

34-3O

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 23'	Depth: 23
DGPS Latitude/Long. 31. 834 19. 014	DGPS Latitude/Long. 31. 819 18. 982	DGPS Latitude/Long. 31. 757 18. 873
DGPS Time: 1136	DGPS Time: 1137	DGPS Time: 1140
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 133°
Wire Out: 125 Tide: 6.3		Distance Trawled = .10 Trawl Speed = 6.2

35-3C

1F, 1A

STATION NO. DATE: 8/5

I. Start Set	II. Start Tow	III. End
Depth: 24	Depth: 24	Depth: 19
DGPS Latitude/Long. 31.841 19.007	DGPS Latitude/Long. 31.824 18.983	DGPS Latitude/Long. 31.694 18.760
DGPS Time: 1152	DGPS Time: 1153	DGPS Time: 1158
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125 Tide: 5.9		Distance Trawled = .20 Trawl Speed = 5.7

36-3C

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 22	Depth: 23	Depth: 18
DGPS Latitude/Long. 31.840 19.008	DGPS Latitude/Long. 824 981	DGPS Latitude/Long. 695 761
DGPS Time: 1259	DGPS Time: 1300	DGPS Time: 1306
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 20m
Wire Out: 125 Tide: 4.0		Distance Trawled = .20 Trawl Speed = 3.8

37-1F

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 28	Depth: 28	Depth: 30
DGPS Latitude/Long. 33.566 20.674	DGPS Latitude/Long. 530 651	DGPS Latitude/Long. 335 544
DGPS Time: 1339	DGPS Time: 1340	DGPS Time: 1346
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 175 Tide: 2.9		Distance Trawled = .21 Trawl Speed = 2.8

38 1A

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STATION NO. DATE: 8/6/04

I. Start Set	II. Start Tow	III. End
Depth: 33'	Depth: 40'	Depth: 40'
DGPS Latitude/Long. 33.967 20.933	DGPS Latitude/Long. 927 919	DGPS Latitude/Long. 732 817
DGPS Time: 0736	DGPS Time: 0737	DGPS Time: 0743
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide: 5.8	5.8	Distance Trawled = .21 nm Trawl Speed = 5.9

39 1A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 33	Depth: 45	Depth: 40'
DGPS Latitude/Long. 33.966 20.930	DGPS Latitude/Long. 944 916	DGPS Latitude/Long. 726 813
DGPS Time: 0800	DGPS Time: 0801	DGPS Time: 0807
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide:		Distance Trawled = .23 nm Trawl Speed =

40 ~~39~~ 1C

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 40'	Depth: 30'	Depth: 34'
DGPS Latitude/Long. 33.713 20.814	DGPS Latitude/Long. 664 792	DGPS Latitude/Long. 514 703
DGPS Time: 0824	DGPS Time: 0825	DGPS Time: 0830
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200' Tide: 6.8		Distance Trawled = .16 nm Trawl Speed = 7.0

41-4B
Slip 6

STATION NO. DATE: 8/6/04

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 20'	Depth: 20'
DGPS Latitude/Long. 31. 159 18. 183	DGPS Latitude/Long. 144 211	DGPS Latitude/Long. 31. 098 343
DGPS Time: 0932	DGPS Time: 0933	DGPS Time: 0936
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125 Tide: 7.9	high flood	Distance Trawled = .10 186m Trawl Speed = 7.9

42-2D
Slip 3

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 25'	Depth: 24	Depth: 25'
DGPS Latitude/Long. 32. 565 19. 882	DGPS Latitude/Long. 32. 556 19. 923	DGPS Latitude/Long. 32. 532 20. 024
DGPS Time: 1013	DGPS Time: 1014	DGPS Time: 1016
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: .07nm 134m
Wire Out: ~~125~~ 150.1 Tide: 8.1		Distance Trawled = Trawl Speed = 8.1 252°T

43-2B
Slip 2

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 25	Depth: 26	Depth: 37
DGPS Latitude/Long. 32. 819 20 124	DGPS Latitude/Long. 797 153	DGPS Latitude/Long. 702 240
DGPS Time: 1040	DGPS Time: 1041	DGPS Time: 1044
Course over Ground (COG):	Course over Ground (COG): 213°T	Magnetic Bearing:
Wire Out: ~~125~~ 150 Tide: 8.1	high ebb	Distance Trawled = .11nm Trawl Speed = 8.1

207m

Slip 1
1 F

44-1F
Slip 1

STATION NO. DATE: 8/6

I. Start Set	II. Start Tow	III. End
Depth: 36	Depth: 34	Depth: 45
DGPS Latitude/Long. 32. 411 20. 459	DGPS Latitude/Long. 405 517	DGPS Latitude/Long. 395 595
DGPS Time: 1103	DGPS Time: 1104	DGPS Time: 1106
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide: 8.0	260°T	Distance Trawled = .05 Trawl Speed = 7.9

45-1C

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 42	Depth: 41	Depth: 26
DGPS Latitude/Long. 33. 765 20. 843	DGPS Latitude/Long. 724 822	DGPS Latitude/Long. 516 725
DGPS Time: 1120	DGPS Time: 1121	DGPS Time: 1127
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 200 Tide: 4.8	164°T	Distance Trawled = .22 Trawl Speed = 7.7

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

46' 4A (1)

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STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 16'	Depth: 16'	Depth: 12'
DGPS Latitude/Long. 31.096 18.393	DGPS Latitude/Long. 086 387	DGPS Latitude/Long. 30.870 308
DGPS Time: 0849	DGPS Time: 0849	DGPS Time: 0855
Course over Ground (COG):	Course over Ground (COG): 166°T	Magnetic Bearing:
Wire Out: 60' Tide: 4.4	4.4	Distance Trawled = .22 nm Trawl Speed = 4.1 407 m.

47' 4A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 14'	Depth: 12'
DGPS Latitude/Long. 31.109 18.394	DGPS Latitude/Long. 31.098 391	DGPS Latitude/Long. 30.859 18.302
DGPS Time: 0922	DGPS Time: 0923	DGPS Time: 0929
Course over Ground (COG):	Course over Ground (COG): 166°T	Magnetic Bearing:
Wire Out: 60' Tide: 2.8	2.8	Distance Trawled = .24 nm (check) Trawl Speed = 2.5

48' 4B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 8'	Depth: 14'	Depth: 10'
DGPS Latitude/Long. 31.083 18.340	DGPS Latitude/Long. 31.079 18.340	DGPS Latitude/Long. 30.879 18.267
DGPS Time: 0958	DGPS Time: 0959	DGPS Time: 1004
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50' Tide: 1.4	1.3	Distance Trawled = .21 Trawl Speed = 1.1

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Duw. River
Windward

8/30

49
3D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 12'	Depth: 13'	Depth: 12'
DGPS Latitude/Long. 31.857 18.994	DGPS Latitude/Long. 847 980	DGPS Latitude/Long. 717 740
DGPS Time: 1030	DGPS Time: 1031	DGPS Time: 1037
Course over Ground (COG):	Course over Ground (COG): 132° T	Magnetic Bearing:
Wire Out: 50' Tide: .3	.3	Distance Trawled = .21 Trawl Speed = .1

6min.

50
3D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 12'	Depth: 10'
DGPS Latitude/Long. 31.833 18.956	DGPS Latitude/Long. 825 944	DGPS Latitude/Long. 752 801
DGPS Time: 1120	DGPS Time: 1120	DGPS Time: 1124
Course over Ground (COG):	Course over Ground (COG): 132° T	Magnetic Bearing:
Wire Out: Tide: -0.8		Distance Trawled = .12 nm 224 m. Trawl Speed = -0.9 hang up

51
4C

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 9.6	Depth: 9	Depth: 13
DGPS Latitude/Long. 30.765 18.267	DGPS Latitude/Long. 780 277	DGPS Latitude/Long. 881 305
DGPS Time: 1242	DGPS Time: 1242	DGPS Time: 1245
Course over Ground (COG): -0.6	Course over Ground (COG): 349° T	Magnetic Bearing: 349°
Wire Out: 50' Tide:		Distance Trawled = Trawl Speed = -0.5

190m
~~33m~~
.18m

(3)

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52'
4C

STATION NO. DATE: 8/30/04

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 12'	Depth: 15'
DGPS Latitude/Long. 30. 779 18. 260	DGPS Latitude/Long. 793 272	DGPS Latitude/Long. 892 302
DGPS Time: 1319	DGPS Time: 1319	DGPS Time: 1322
Course over Ground (COG):	Course over Ground (COG): 349°T	Magnetic Bearing: 110nm 187nm
Wire Out: 75' Tide: .2		Distance Trawled = .3 Trawl Speed =

53'
4D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 15'	Depth: 19'
DGPS Latitude/Long. 30. 764 18. 212	DGPS Latitude/Long. 778 226	DGPS Latitude/Long. 891 285
DGPS Time: 1353	DGPS Time: 1353	DGPS Time: 1357
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 222nm 112nm
Wire Out: 75' Tide: 1.5	1.5	Distance Trawled = 1.6 Trawl Speed =

8/31
54-
4B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 17	Depth: 17'	Depth: 18'
DGPS Latitude/Long. 31. 104 18. 345	DGPS Latitude/Long. 089 341	DGPS Latitude/Long. 30. ~~104~~ 866 18. ~~345~~ 262
DGPS Time: 0800	DGPS Time: 0800	DGPS Time: 0806 6 min
Course over Ground (COG):	Course over Ground (COG): 150°M	Magnetic Bearing:
Wire Out: 75' Tide: 8.4		Distance Trawled = .23nm Trawl Speed = 8.2

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Windward
Lo

STATION NO. 55-4B

DATE: 8/31

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 13'	Depth: 13'
DGPS Latitude/Long. 31.070 18.336	DGPS Latitude/Long. 048 326	DGPS Latitude/Long. 30.864 18.257
DGPS Time: 0823	DGPS Time: 0824	DGPS Time: 0828 4 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 7.6	167°T	Distance Trawled = .19 nm Trawl Speed = 7.5

10' 10'

STATION NO. 56-4B

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 22'	Depth: 23'
DGPS Latitude/Long. 31.074 18.342	DGPS Latitude/Long. 052 339	DGPS Latitude/Long. 30.865 18.267
DGPS Time: 0839	DGPS Time: 0839	DGPS Time: 0845 6 min
Course over Ground (COG):	Course over Ground (COG): 147°M	Magnetic Bearing:
Wire Out: 100' Tide: 7.1		Distance Trawled = .19 nm Trawl Speed = 6.9

STATION NO. 57-4D

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 12'	Depth: 21'	Depth: 12'
DGPS Latitude/Long. 30.876 18.261	DGPS Latitude/Long. 859 262	DGPS Latitude/Long. 754 157
DGPS Time: 0912	DGPS Time: 0913	DGPS Time: 0917 4 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 5.8		Distance Trawled = .13 Trawl Speed = 5.6

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STATION NO. 58' 4D

DATE: 8/31

I. Start Set	II. Start Tow	III. End
Depth: 10'	Depth: 10'	Depth: 9.6
DGPS Latitude/Long. 30.880 18.266	DGPS Latitude/Long. 868 263	DGPS Latitude/Long. 755 156
DGPS Time: 1007	DGPS Time: 1007	DGPS Time: 1012 288m.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: .16mm
Wire Out: 50' Tide: 3.6		Distance Trawled = ~~.25~~ Trawl Speed = 3.3

STATION NO. 59' 3B

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 12'	Depth: 12'
DGPS Latitude/Long. 32.007 19.245	DGPS Latitude/Long. 31.999 19.233	DGPS Latitude/Long. 31.850 18.982
DGPS Time: 1107	DGPS Time: 1107	DGPS Time: 1114
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 30' Tide: 1.3		Distance Trawled = .23 Trawl Speed = 1.1

STATION NO. 60' 3B

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 10'	Depth: 11'	Depth: 12'
DGPS Latitude/Long. 31.987 19.216	DGPS Latitude/Long. 31.979 19.202	DGPS Latitude/Long. 31.849 18.982
DGPS Time: 1220	DGPS Time: 1220	DGPS Time: 1225 5min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50' Tide: -0.1		Distance Trawled = .20 370m Trawl Speed = -0.1

(6)

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61-3B

STATION NO. DATE: 8/31

I. Start Set	II. Start Tow	III. End
Depth: 11'	Depth: 11'	Depth: 12'
DGPS Latitude/Long. 32.009 19.250	DGPS Latitude/Long. 32.001 19.237	DGPS Latitude/Long. 31.848 18.981
DGPS Time: 1245	DGPS Time: 1246	DGPS Time: 1252 6 min
Course over Ground (COG): 50	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: 0.2		Distance Trawled = .23 mm Trawl Speed = 0.1

62-3B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 12'	Depth: 12'	Depth: 12'
DGPS Latitude/Long. 32.009 19.254	DGPS Latitude/Long. 32.003 19.242	DGPS Latitude/Long. 31.850 18.983
DGPS Time: 1316	DGPS Time: 1317	DGPS Time: 1322 5 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150 Tide: 0.1	0.1	Distance Trawled = .23 Trawl Speed = 0.2

63-3B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 13'	Depth: 15'
DGPS Latitude/Long. 31.718 18.744	DGPS Latitude/Long. 31.704 18.718	DGPS Latitude/Long. 510 518
DGPS Time: 1343	DGPS Time: 1344	DGPS Time: 1350
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: .6		Distance Trawled = .24 Trawl Speed = .9

(7)

Marla Steinhoff WOAK

R/V Kittiwake
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Windward

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Duwamish Trawl

64' 4D

STATION NO. DATE: 9/1

I. Start Set	II. Start Tow	III. End
Depth: 12	Depth: 13'	Depth: 16'
DGPS Latitude/Long. 30.873 18.257	DGPS Latitude/Long. 856 251	DGPS Latitude/Long. 750 130
DGPS Time: 0813	DGPS Time: 0813	DGPS Time: 0818
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 9.3	9.3	Distance Trawled = Trawl Speed = 9.2 ebb

65' 4D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 19'	Depth: 15'
DGPS Latitude/Long. 30.875 18.261	DGPS Latitude/Long. 860 260	DGPS Latitude/Long. 750 152
DGPS Time: 0856	DGPS Time: 0856	DGPS Time: 0900
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 8.3	8.3	Distance Trawled = Trawl Speed = 8.2

66' 4B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 15'	Depth: 20'
DGPS Latitude/Long. 31.085 18.340	DGPS Latitude/Long. 069 337	DGPS Latitude/Long. 30.862 18.264
DGPS Time: 0955	DGPS Time: 0955	DGPS Time: 1002 7 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide:		Distance Trawled = .21 Trawl Speed =

6.4 6.4 6.1

(8)

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67
4B

STATION NO. DATE: 9/1

I. Start Set	II. Start Tow	III. End
Depth: 11	Depth: 16	Depth: 14
DGPS Latitude/Long. 31.087 18.339	DGPS Latitude/Long. 069 341	DGPS Latitude/Long. 30.863 18.261
DGPS Time: 1030	DGPS Time: 1031	DGPS Time: 1037 6 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75 Tide: 5.1		Distance Trawled = .21 Trawl Speed = 4.8

68
4B

STATION NO. DATE: 9/1

I. Start Set	II. Start Tow	III. End
Depth: 11	Depth: 15	Depth: 9.6
DGPS Latitude/Long. 31.089 18.338	DGPS Latitude/Long. 078 340	DGPS Latitude/Long. 30.869 18.262
DGPS Time: 1054	DGPS Time: 1054	DGPS Time: 1100 6 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50 Tide: 4.2	4.2	Distance Trawled = .21 Trawl Speed = 3.9

69
3E

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 16'	Depth: 16
DGPS Latitude/Long. 31.710 18.790	DGPS Latitude/Long. 700 771	DGPS Latitude/Long. 303 553
DGPS Time: 1126	DGPS Time: 1126	DGPS Time: 1133 Twisted wing.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: 3.0		Distance Trawled = .25 Trawl Speed = 2.8

9

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70-
3E

STATION NO. DATE: 9/1

I. Start Set	II. Start Tow	III. End
Depth: 16	Depth: 15	Depth: 13
DGPS Latitude/Long. 31.712 18.788	DGPS Latitude/Long. 699 770	DGPS Latitude/Long. 500 557
DGPS Time: 1147	DGPS Time: 1147	DGPS Time: 1155
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 2.3		Distance Trawled = Trawl Speed = 2.2

71-
3A

STATION NO. DATE: 9/1

I. Start Set	II. Start Tow	III. End
Depth: 18'	Depth: 18'	Depth: 16'
DGPS Latitude/Long. 31.986 19.269	DGPS Latitude/Long. 31.973 19.249	DGPS Latitude/Long. 31.825 18.996
DGPS Time: 1302	DGPS Time: 1302	DGPS Time: 1308
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 6 mm 123 mm 419 mm
Wire Out: 75' Tide: 1.0	1GW	Distance Trawled = Trawl Speed = 1.0

~~7A 3B~~

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50' Tide:		Distance Trawled = Trawl Speed =

(10)

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72'
4D

STATION NO. DATE: 9/2

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 16'	Depth: 14'
DGPS Latitude/Long. 30.761 18.169	DGPS Latitude/Long. 771 189	DGPS Latitude/Long. 897 273
DGPS Time: 0813	DGPS Time: 0813	DGPS Time: 0817
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60' Tide: 9.6	high	Distance Trawled = .14 Trawl Speed = 9.6

.14 nm
265m
293
~~134°T~~
~~167°T~~
328
312 → 347 T

73'
4D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 15'	Depth: 14'
DGPS Latitude/Long. 30.764 18.152	DGPS Latitude/Long. 768 174	DGPS Latitude/Long. 898 271
DGPS Time: 829	DGPS Time: 829	DGPS Time: 833
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60' Tide: 9.5	high	Distance Trawled = Trawl Speed = 9.5

74'
4D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15'	Depth: 14'	Depth: 16'
DGPS Latitude/Long. 30.765 18.137	DGPS Latitude/Long. 768 156	DGPS Latitude/Long. 891 269
DGPS Time: 0843	DGPS Time: 0844	DGPS Time: 0848
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60 Tide: 9.4	high ebb	Distance Trawled = Trawl Speed = 9.3

(11)

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75'
4B

STATION NO. DATE: 9/2

I. Start Set	II. Start Tow	III. End
Depth: 18'	Depth: 18'	Depth: 17'
DGPS Latitude/Long. 31.086 18.346	DGPS Latitude/Long. 068 338	DGPS Latitude/Long. 30.862 18.261
DGPS Time: 0912	DGPS Time: 0913	DGPS Time: 0919
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 6 min.
Wire Out: 75' Tide: 9.0		Distance Trawled = .21 m Trawl Speed = 8.9

76
4D
channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 23'	Depth: 23'	Depth: 25'
DGPS Latitude/Long. 30.768 18.188	DGPS Latitude/Long. 781 223	DGPS Latitude/Long. 899 286
DGPS Time: 0948	DGPS Time: 0949	DGPS Time: 0952
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 8.2		Distance Trawled = Trawl Speed = 8.1

113M
↓
148M

44 +
195 m.
240 m.
113

77
4B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 20'	Depth: 15'
DGPS Latitude/Long. 31.077 18.344	DGPS Latitude/Long. 061 337	DGPS Latitude/Long. ~~30.077~~ 30.864 ~~18.344~~ 18.262
DGPS Time: 1054	DGPS Time: 1055	DGPS Time: 1100
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 6.3	6.3	Distance Trawled = .20 Trawl Speed = 6.2

12

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~~18~~ 4B Channel

STATION NO. DATE: 9/2

I. Start Set	II. Start Tow	III. End
Depth: 20	Depth: 18	Depth: 22
DGPS Latitude/Long. 31.119 18.368	DGPS Latitude/Long. 097 364	DGPS Latitude/Long. 30.860 18.269
DGPS Time: 1111	DGPS Time: 1112	DGPS Time: 1118
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100 Tide: 5.8	5.8	Distance Trawled = .25 Trawl Speed = 5.6

79 3B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 15	Depth: 14	Depth: 15
DGPS Latitude/Long. 32.005 19.248	DGPS Latitude/Long. 32.000 19.232	DGPS Latitude/Long. 31.847 18.973
DGPS Time: 1203	DGPS Time: 1203	DGPS Time: 1209
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50 Tide: 4.2		Distance Trawled = .23 Trawl Speed = 4.0

60 3A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth: 15
DGPS Latitude/Long. 31.988 19.266	DGPS Latitude/Long. 971 244	DGPS Latitude/Long. 826 003
DGPS Time: 1223	DGPS Time: 1223	DGPS Time: 1229
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75 Tide: 3.6		Distance Trawled = .22 Trawl Speed = 3.4

(13)

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01-3E

STATION NO. DATE: 9/2/04

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 15'	Depth: 16'
DGPS Latitude/Long. 31.708 18.789	DGPS Latitude/Long. 696 766	DGPS Latitude/Long. 503 555
DGPS Time: 1326	DGPS Time: 1327	DGPS Time: 1333
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 2.4		Distance Trawled = .24 Trawl Speed = 2.3

02-3E

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 15'	Depth: 12'
DGPS Latitude/Long. 706 784	DGPS Latitude/Long. 693 762	DGPS Latitude/Long. 507 559
DGPS Time: 1354	DGPS Time: 1355	DGPS Time: 1401
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 2.3	low	Distance Trawled = Trawl Speed = 2.3

03-3F

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 13'	Depth: 15'
DGPS Latitude/Long. 31.723 18.745	DGPS Latitude/Long. 712 729	DGPS Latitude/Long. 515 514
DGPS Time: 1428	DGPS Time: 1429	DGPS Time: 1435
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60' Tide: 2.4		Distance Trawled = Trawl Speed = 2.5

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84' 4D

STATION NO. DATE: 9/3

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 15'	Depth: 14'
DGPS Latitude/Long. 30.776 18.184	DGPS Latitude/Long. 783 204	DGPS Latitude/Long. 894 271
DGPS Time: 0814	DGPS Time: 0814	DGPS Time: 0817
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60' Tide: 9.0	high flood	Distance Trawled = Trawl Speed = 9.1

85' 4D channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 26	Depth: 27	Depth: 26'
DGPS Latitude/Long. 758 201	DGPS Latitude/Long. 777 220	DGPS Latitude/Long. 893 283
DGPS Time: 0827	DGPS Time: 0828	DGPS Time: 0832
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 9.1	high ~~fld~~.	Distance Trawled = Trawl Speed = 9.2

297
329
235m.
.13

86' 4A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth:
DGPS Latitude/Long. 31.108 18.398	DGPS Latitude/Long. 093 392	DGPS Latitude/Long. 30.853 18.307
DGPS Time: 0915	DGPS Time: 0915	DGPS Time: 0922
Course over Ground (COG):	Course over Ground (COG): 166°T	Magnetic Bearing:
Wire Out: 75' Tide: 9.2		Distance Trawled = .25mm Trawl Speed = 9.2

166
7mm

(15)

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87-
4A
Channel

STATION NO. DATE: 9/3

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth: 23
DGPS Latitude/Long. 31.099 18.385	DGPS Latitude/Long. 076 370	DGPS Latitude/Long. 30.860 18.285 414m.
DGPS Time: 0936	DGPS Time: 0937	DGPS Time: 0942 5min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 9.1	9.1	Distance Trawled = .22 (414m) Trawl Speed = 9.0

166°T

88-
4B
Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 22	Depth: 22
DGPS Latitude/Long. 31.082 18.354	DGPS Latitude/Long. 057 344	DGPS Latitude/Long. 30.849 18.260
DGPS Time: 1013	DGPS Time: 1014	DGPS Time: 1019 5min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 8.7		Distance Trawled = .22 Trawl Speed = 8.6

89-
4A
Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20	Depth: 20	Depth: 20
DGPS Latitude/Long. 31.101 18.378	DGPS Latitude/Long. 081 374	DGPS Latitude/Long. 30.859 18.296
DGPS Time: 1032	DGPS Time: 1033	DGPS Time: 1038
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide:	8.3	Distance Trawled = .23 425m. Trawl Speed = 8.3

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90' 4B channel

STATION NO. DATE: 9/3

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 20	Depth: 23
DGPS Latitude/Long. 31.105 18.370	DGPS Latitude/Long. 083 355	DGPS Latitude/Long. 30.856 18.277
DGPS Time: 1052	DGPS Time: 1053	DGPS Time: 1059 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 7.9	7.9	Distance Trawled = .23 Trawl Speed = 7.8

91 4A' Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20	Depth: 19	Depth: 21
DGPS Latitude/Long. 31.103 18.389	DGPS Latitude/Long. 086 378	DGPS Latitude/Long. 30.855 18.293
DGPS Time: 1120	DGPS Time: 1121	DGPS Time: 1127
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 7.3		Distance Trawled = .24 Trawl Speed = 7.1

92 4-B Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 19	Depth: 22
DGPS Latitude/Long. 31.116 18.369	DGPS Latitude/Long. 090 362	DGPS Latitude/Long. 30.858 18.269
DGPS Time: 1145	DGPS Time: 1146	DGPS Time: 1152
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: .24
Wire Out: 100' Tide: 6.6		Distance Trawled = Trawl Speed = 6.5

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R/V Kittiwake
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Dunwamish

93
3B

STATION NO. DATE: 9/3

I. Start Set	II. Start Tow	III. End
Depth: 15	Depth: 13	Depth: 15
DGPS Latitude/Long. 32.010 19.251	DGPS Latitude/Long. 005 237	DGPS Latitude/Long. 31.847 18.974
DGPS Time: 1249	DGPS Time: 1250	DGPS Time: 1256 6 min.
Course over Ground (COG): 50'	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: 5.1		Distance Trawled = .24 Trawl Speed = 4.9

94
3B
channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20	Depth: 21	Depth: 21
DGPS Latitude/Long. 32.007 19.254	DGPS Latitude/Long. 31.992 19.236	DGPS Latitude/Long. 31.840 18.979
DGPS Time: 1307	DGPS Time: 1307	DGPS Time: 1313
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 6 min.
Wire Out: 90 Tide: 4.7		Distance Trawled = .23 Trawl Speed = 4.5

95
3B
channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth: 19
DGPS Latitude/Long. 32.000 19.252	DGPS Latitude/Long. 32.983 19.231	DGPS Latitude/Long. 31.839 18.974
DGPS Time: 1325	DGPS Time: 1325	DGPS Time: 1331
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 90 Tide: 4.3		Distance Trawled = .23 Trawl Speed = 4.2

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96'
3D

STATION NO. DATE: 9/3

I. Start Set	II. Start Tow	III. End
Depth: 16	Depth: 17	Depth: 15
DGPS Latitude/Long. 31.838 18.962	DGPS Latitude/Long. 828 747	DGPS Latitude/Long. 715 734
DGPS Time: 1347	DGPS Time: 1347	DGPS Time: 1353
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 3.9		Distance Trawled = 1.8 m 343 m Trawl Speed = 3.9

187
156

118m → 101m.
137T → 120T

BDF 9/7/04

97'
3B

STATION NO. DATE: 9/7/04

I. Start Set	II. Start Tow	III. End
Depth: 16'	Depth: 17'	Depth: 17'
DGPS Latitude/Long. 32.003 19.248	DGPS Latitude/Long. 31.989 19.226	DGPS Latitude/Long. 31.852 18.998
DGPS Time: 0744	DGPS Time: 0744	DGPS Time: 0750 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 1.9	flood	Distance Trawled = .22 407m. Trawl Speed = 2.0

98'
3B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 17'	Depth: 21'
DGPS Latitude/Long. 31.852 18.998	DGPS Latitude/Long. 31.863 19.016	DGPS Latitude/Long. 32.014 19.275
DGPS Time: 0758	DGPS Time: 0759	DGPS Time: 0805 6 min
Course over Ground (COG):	Course over Ground (COG): 293°M	Magnetic Bearing:
Wire Out: Tide: 2.2	~~131°T~~ 311°M	Distance Trawled = .23 426 m Trawl Speed = 2.3

(19)

99-
3B

STATION NO. DATE: 9/7/04

I. Start Set	II. Start Tow	III. End
Depth: 18'	Depth: 18'	Depth: 22
DGPS Latitude/Long. 31.856 19.005	DGPS Latitude/Long. 31.866 19.021	DGPS Latitude/Long. 32.015 19.273
DGPS Time: 0816	DGPS Time: 0816	DGPS Time: 0822 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: 2.5	2.5	Distance Trawled = .23 Trawl Speed = 2.6 293°M → 311°T

100-
3D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 23	Depth: 23	Depth: 17'
DGPS Latitude/Long. NA	DGPS Latitude/Long. 31.730 18.785	DGPS Latitude/Long. 31.865 19.010
DGPS Time: 0846	DGPS Time: 0846	DGPS Time: 0851 5 min.
Course over Ground (COG):	Course over Ground (COG): 311°T	Magnetic Bearing:
Wire Out: 75' Tide: 3.2	fill.	Distance Trawled = .21 Trawl Speed = 3.3

101-
3D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 22	Depth: 23	Depth: 17
DGPS Latitude/Long. 31.719 18.773	DGPS Latitude/Long. 731 796	DGPS Latitude/Long. 31.868 19.018
DGPS Time: 0901	DGPS Time: 0901	DGPS Time: 0906 5 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100 Tide:	3.6	Distance Trawled = .20 370 m Trawl Speed = 3.7

(20)

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STATION NO. 102 3F

DATE: 9/7/04

I. Start Set	II. Start Tow	III. End
Depth: 17	Depth: 17	Depth: 17
DGPS Latitude/Long. 31.527 18.518	DGPS Latitude/Long. 543 526	DGPS Latitude/Long. 731 763
DGPS Time: 0925	DGPS Time: 0925	DGPS Time: 0932 7min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 4.2		Distance Trawled = .25 Trawl Speed = 4.4

326°M → 296°M
345° → 330°T

STATION NO. 103 3F

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 20'	Depth: 23'
DGPS Latitude/Long. 31.520 18.538	DGPS Latitude/Long. 31.540 18.541	DGPS Latitude/Long. 732 718
DGPS Time: 0944	DGPS Time: 0945	DGPS Time: 0951
Course over Ground (COG):	Course over Ground (COG): 322°M	Magnetic Bearing:
Wire Out: 100' Tide:	4.8	Distance Trawled = .25 Trawl Speed = 5.0

STATION NO. 104 3F

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 21	Depth: 24
DGPS Latitude/Long. 31.541 18.543	DGPS Latitude/Long. 556 551	DGPS Latitude/Long. 733 779
DGPS Time: 1004	DGPS Time: 1004	DGPS Time: 1010 6min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 5.2		Distance Trawled = .23 Trawl Speed = 5.4

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105-
3A

STATION NO. DATE: 9/7/04

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 17'	Depth: 23'
DGPS Latitude/Long. 31.834 19.023	DGPS Latitude/Long. 846 041	DGPS Latitude/Long. 996 289
DGPS Time: 1022	DGPS Time: 1023	DGPS Time: 1029 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 75' Tide: 5.8	312°T	Distance Trawled = .22 Trawl Speed = 6.0

106-
3A
channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 25'	Depth: 25'	Depth: 26
DGPS Latitude/Long. 31.848 19.015	DGPS Latitude/Long. 862 037	DGPS Latitude/Long. 009 291
DGPS Time: 1037	DGPS Time: 1037	DGPS Time: 1043 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 6.1	6.1	Distance Trawled = .23 mi Trawl Speed = 6.3

107-
3A
shoulder

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 13'	Depth: 14'	Depth: 23'
DGPS Latitude/Long. 831 029	DGPS Latitude/Long. 842 043	DGPS Latitude/Long. 992 291
DGPS Time: 1053	DGPS Time: 1053	DGPS Time: 1059
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 60' Tide: 6.6		Distance Trawled = .22 Trawl Speed = 6.8

22

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108
3B

STATION NO. DATE: 9/7

I. Start Set	II. Start Tow	III. End
Depth: 13'	Depth: 15'	Depth: 12'
DGPS Latitude/Long.	DGPS Latitude/Long. 31.861 18.996	DGPS Latitude/Long. 32.022 19.254
DGPS Time: NA	DGPS Time: 1109	DGPS Time: 1115 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 50' Tide:	7.0'	Distance Trawled = .24 Trawl Speed = 7.1

109
3B
Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 22'	Depth: 22'	Depth: 25'
DGPS Latitude/Long. 31.854 18.996	DGPS Latitude/Long. 31.867 19.020	DGPS Latitude/Long. 32.018 19.277
DGPS Time: 1127	DGPS Time: 1127.	DGPS Time: 1133 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide:	7.4'	Distance Trawled = .23 Trawl Speed = 7.5.

110
3F

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 23'	Depth: 23'	Depth: 26'
DGPS Latitude/Long. 31.526 18.539	DGPS Latitude/Long. 552 551	DGPS Latitude/Long. 733 781
DGPS Time: 1145	DGPS Time: 1146	DGPS Time: 1152 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125' Tide: 7.8		Distance Trawled = .24 Trawl Speed = 7.9

(22)

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111-
3F

STATION NO. DATE: 9/7

I. Start Set	II. Start Tow	III. End
Depth: 23	Depth: 24	Depth: 29'
DGPS Latitude/Long. 31.528 18.536	DGPS Latitude/Long. 559 554	DGPS Latitude/Long. 737 793
DGPS Time: 1304	DGPS Time: 1304	DGPS Time: 1311
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' Tide: 8.9		Distance Trawled = .24 Trawl Speed = 9.0'

112-
3D
Chan

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 29	Depth: 31	Depth: 23
DGPS Latitude/Long. 31.729 18.785	DGPS Latitude/Long. 748 826	DGPS Latitude/Long. 31.869 19.020
DGPS Time: 1328	DGPS Time: 1329	DGPS Time: 1333 4 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125' Tide: 9.1		Distance Trawled = .18 .33 mi Trawl Speed = 9.2

113
3D
Chan

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 28'	Depth: 28'	Depth: 24'
DGPS Latitude/Long. 31.716 18.~~806~~ 766	DGPS Latitude/Long. 734 806	DGPS Latitude/Long. 869 026
DGPS Time: 1404	DGPS Time: 1404	DGPS Time: 1410 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150 Tide: 9.3	high fld.	Distance Trawled = .20 Trawl Speed = 9.3

24

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114'
1D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 39'	Depth: 38'	Depth: 35'
DGPS Latitude/Long. 33.782 20.780	DGPS Latitude/Long. 733 759	DGPS Latitude/Long. 532 651
DGPS Time: 1449	DGPS Time: 1450	DGPS Time: 1456
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 225' Tide:	high ebb 9.2↓	Distance Trawled = .21 Trawl Speed = 9.2

115'
1D
channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 40'	Depth: 42'	Depth: 39'
DGPS Latitude/Long. 33.777 20.791	DGPS Latitude/Long. 718 772	DGPS Latitude/Long. 521 660
DGPS Time: 1508	DGPS Time: 1510	DGPS Time: 1515
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 250' Tide: 9.1		Distance Trawled = .21 Trawl Speed = 9.1

116'
2E

STATION NO. DATE: 9/8/01

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 20'	Depth: 22'
DGPS Latitude/Long. 32.453 19.977	DGPS Latitude/Long. 434 956	DGPS Latitude/Long. 279 726
DGPS Time: 0754	DGPS Time: 0755	DGPS Time: 0801
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide:	1.2↑ low tide.	Distance Trawled = .22 Trawl Speed = 1.2

25

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117-
2E
Channel

STATION NO. DATE: 9/8/04

I. Start Set	II. Start Tow	III. End
Depth: 22	Depth: 21	Depth: 24
DGPS Latitude/Long. 32.284 19.728	DGPS Latitude/Long. 305 759	DGPS Latitude/Long. 475 996
DGPS Time: 0822	DGPS Time: 0823	DGPS Time: 0829
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125' Tide: 1.4	317°T	Distance Trawled = .23 6 min Trawl Speed = 1.5

118-
2F

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 19	Depth: 19	Depth: 22
DGPS Latitude/Long. 32.323 19.732	DGPS Latitude/Long. 340 759	DGPS Latitude/Long. 492 964
DGPS Time: 0843	DGPS Time: 0843	DGPS Time: 0848
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: .21
Wire Out: 125' Tide: 1.7		Distance Trawled = Trawl Speed = 1.8

119-
2F
Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 25'	Depth: 25'	Depth: 27'
DGPS Latitude/Long. 32.296 19.725	DGPS Latitude/Long. 319 758	DGPS Latitude/Long. 485 977
DGPS Time: 0915	DGPS Time: 0916	DGPS Time: 0922 6 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' Tide: 2.3		Distance Trawled = .23 Trawl Speed = 2.5

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120' 4C Channel

STATION NO. DATE: 9/8/04

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth: 17
DGPS Latitude/Long. 30.754 18.221	DGPS Latitude/Long. 774 252	DGPS Latitude/Long. 891 303
DGPS Time: 0958	DGPS Time: 0959	DGPS Time: 1002 3 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125' Tide: 3.3		Distance Trawled = .12 Trawl Speed = 3.4

121' 4C Channel

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 20'	Depth: 19'
DGPS Latitude/Long. 30.746 18.227	DGPS Latitude/Long. 768 243	DGPS Latitude/Long. 899 308
DGPS Time: 1020	DGPS Time: 1021	DGPS Time: 1024 3 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 125 Tide: 3.9↑		Distance Trawled = .14 Trawl Speed = 4.1

122' 1B

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 30	Depth: 31	Depth: 45
DGPS Latitude/Long. 33.787 20.770	DGPS Latitude/Long. 831 792	DGPS Latitude/Long. 34.045 20.847
DGPS Time: 1110	DGPS Time: 1112	DGPS Time: 1117
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide: 250 5.5	350↑	Distance Trawled = .22 Trawl Speed = 5.6

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123' 1B Channel

STATION NO. DATE: 9/8/04

I. Start Set	II. Start Tow	III. End
Depth: 40'	Depth: 38'	Depth: 55
DGPS Latitude/Long. 33.787 20.797	DGPS Latitude/Long. 824 813	DGPS Latitude/Long. 34.028 20.923
DGPS Time: 1132	DGPS Time: 1134	DGPS Time: 1139 5 min.
Course over Ground (COG):	Course over Ground (COG): 320°M = 339°T	Magnetic Bearing:
Wire Out: 250' Tide:	6.1	Distance Trawled = .22 Trawl Speed = 6.2

124' 1D

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 36'	Depth: 38'	Depth: 34'
DGPS Latitude/Long. 33.788 20.777	DGPS Latitude/Long. 740 759	DGPS Latitude/Long. 537 656
DGPS Time: 1220	DGPS Time: 1221	DGPS Time: 1226
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 225' Tide: 7.4		Distance Trawled = .22 Trawl Speed = 7.5

125' 1A

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 33	Depth: 39	Depth: 42
DGPS Latitude/Long. 33.993 20.951	DGPS Latitude/Long. 952 929	DGPS Latitude/Long. 727 826
DGPS Time: 1254	DGPS Time: 1255	DGPS Time: 1301
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 225 Tide: 8.2		Distance Trawled = .24 Trawl Speed = 8.2

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126-1C

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STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 44	Depth: 41	Depth: 34'
DGPS Latitude/Long. 770 837	DGPS Latitude/Long. 717 821	DGPS Latitude/Long. 522 708
DGPS Time: 1321	DGPS Time: 1323	DGPS Time: 1328 5min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 225' Tide: 8.7	8.7	Distance Trawled = .21 .38 nm Trawl Speed = 8.8

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. **DATE:**

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. **DATE:**

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

STATION NO. **DATE:**

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

1

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BL TR-1

STATION NO. DATE: 9/14/04

I. Start Set	II. Start Tow	III. End
Depth: 41	Depth: 41	Depth: 44'
DGPS Latitude/Long. 31.796 32.123	DGPS Latitude/Long. 31.842 32.084	DGPS Latitude/Long. 32.131 31.928
DGPS Time: 1023	DGPS Time: 1025	DGPS Time: 1032
Course over Ground (COG):	Course over Ground (COG): 007°M 26°T	Magnetic Bearing:
Wire Out: 225' Tide: 1.4	1.4	Distance Trawled = .31 nm Trawl Speed = 1.2

.70 nm 002°M 21°T

BL TR-2

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 48'	Depth: 45'	Depth: 45'
DGPS Latitude/Long. 31.858 31.728	DGPS Latitude/Long. 899 733	DGPS Latitude/Long. 32.178 31.662
DGPS Time: 1101	DGPS Time: 1102	DGPS Time: 1110
Course over Ground (COG):	Course over Ground (COG): 346°M 365°T	Magnetic Bearing:
Wire Out: 225 Tide: 0.8	low	Distance Trawled = .28 Trawl Speed = 0.8

.54 nm 352°M 11°T

BL TR-3

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 78'	Depth: 83'	Depth: 79'
DGPS Latitude/Long. 31.841 31.637	DGPS Latitude/Long. 914 643	DGPS Latitude/Long. 32.221 31.590
DGPS Time: 1130	DGPS Time: 1132	DGPS Time: 1140
Course over Ground (COG):	Course over Ground (COG): ~~327°~~ 008°T	Magnetic Bearing:
Wire Out: 400' Tide: 0.7	low	Distance Trawled = .31 nm 572 nm Trawl Speed = 0.7

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9/14 Crab Pot #

BL-CT1

Harper

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 (3)		31.3380	31.4757	0921		119'	3.0		1.5
Rep 2		8574	4510	0924		119	3.0		1.5
Rep 3		8897	5406	0933		116	2.9		1.6
(4)		9283	5667	0937		113	2.7		1.6

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 5		31.7462	32.5542	0946		40'	2.4		
Rep 2 6		31.7112	32.3119	0949		45'	2.4		
Rep 3 7		31.7004	32.3740	0950		41'	2.3		
8		31.7252	32.2997	0956		40'	2.1		
9		7064	4280	0957		30'	2.1		

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 10		31.7104	32.4678	0950		20'	2.0		
Rep 2 11		7323	5242	1002		15'	2.0		
Rep 3 12		8049	5666	1004		39'	1.9		

9/16 Shrimp Pots

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:	31.	32.						
Rep 1 BL-5		7473	2554	0842		54'	8.4		1.5
Rep 2		7342	2083	0844		54'	8.3		1.5
Rep 3		7749	1584	0846		52'	8.3		1.5
4		7909	1223	0848		50'	8.3		1.5

1 c.g.

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 5		8040	2113	0850		56'	8.2		1.6
Rep 2 6		8122	3038	0852		57'	8.1		1.6
~~Rep 3~~									

5 c.g.

Grabs BL-SED1

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	TR-1	31.9892	31.9823	0907		49'	7.6		1.7
Rep 2	TR-2	32.0986	31.6178	0918		78'	7.3		1.6
Rep 3	TR-4	32.7806	32.1898	0935		82'	6.7		1.6

1 c.g.
5 c.g.

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	TR-5	33.1112	31.7855	0944		137'	6.4		1.5
Rep 2									
Rep 3 Crab Pots		31.8845	31.5184	1002		130'	5.8		1.4

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Blake Island

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	07	31.7966	32.5173	0922	1139	44	4.8	Ø	1.6
Rep 2	08	7795	4242	0925	1142	47	4.9		
Rep 3	09	6967	4536	0929	1145	13	4.9		
	10	6783	3968	0932	1146	24	5.0		

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	11	6485	3083	0934	1148	45	5.1		
Rep 2	12	6054	3135	0936	1151	31	5.1		1.6
Rep 3									

Seahurst

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:	28.	22.						
Rep 1	19	6110	9874	1259	10.3	20'	1741		
Rep 2	20	6204	9779	1302	10.3	20'	1743		2 C.9
Rep 3	21	6434	9960	1305	10.3	22'	1746		1 C.9
	22	7093	9971	1308	10.4	25'	1749		

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	23	7535	9720	1310	10.4	28'	1752		Ø
Rep 2	24	8243	9126	1313	10.4	27'	1756		
Rep 3									

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1									
Rep 2									
Rep 3									

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1									
Rep 2									
Rep 3									

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1									
Rep 2									
Rep 3									

Ref. Seal 47 38 48.04 28.8007
Lake Wash 122 16 33.54 16.5590
Webster Pt.

E

R/V Kittiwake
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STATION NO. BL TR-4 DATE: 9/14/04

I. Start Set	II. Start Tow	III. End
Depth: 76	Depth: 79	Depth: 75'
DGPS Latitude/Long. 32.465 32.113	DGPS Latitude/Long. 32.548 32.117	DGPS Latitude/Long. 33.043 32.283
DGPS Time: 1157	DGPS Time: 1159	DGPS Time: 1211 12 min
Course over Ground (COG):	Course over Ground (COG): 341° → 359°T	Magnetic Bearing:
Wire Out: 400' Tide: 0.8	0.8 low fld.	Distance Trawled = 0.51 Trawl Speed = 1.0

940 m 348°T

STATION NO. BL TR-5 DATE:

I. Start Set	II. Start Tow	III. End
Depth: 128'	Depth: 134'	Depth: 137
DGPS Latitude/Long. 32.636 31.787	DGPS Latitude/Long. 32.803 31.811	DGPS Latitude/Long. 33.558 31.809
DGPS Time: 1226	DGPS Time: 1230	DGPS Time: 1248
Course over Ground (COG):	Course over Ground (COG): 343°M → 362°T	Magnetic Bearing:
Wire Out: 700' Tide: 1.3	1.3	Distance Trawled = .75 Trawl Speed =

1398m 001°T

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

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EP-CT01

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1	01	28.6734	22.1755	1201		12'	2.6		1.1
Rep 2	02	7248	1465	1205		123'	2.6		1.1
Rep 3	03	7872	1423	1208		126	2.5		1.3
4	04	8637	1268	1211		118	2.5		1.1

File Appendix Fig. E1

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 5		28.9002	21.9317	1214		50'	2.4		1.1
Rep 2 6		9306	9010	1217		51'	2.4		1.1
Rep 3 7		29.0371	21.9023	1220		53	2.4		1.1
8.		28.8162	21.9794	1225		49'	2.3		1.1

EP-ST

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 9		28.7799	22.0805	1228		80'	2.3		1.1
Rep 2 10		7485	0948	1231		87'	2.3		1.1
Rep 3 11		6808	1431	1235		96'	2.3		1.1
12		6157	1732	1237		96'	2.2		1.1

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 (3)		6157	0681	1241		50'	2.2		1.1
Rep 2 (4)		6333	0319	1242		42'	2.2		1.1
Rep 3		6855	0479	1244		51'	2.2		1.1
4		7425	0261	1246		49'	2.2		1.5

Documents Fish & Crab Tissue Quad

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 (5)		7950	9806	1248		46	2.2		1.5
Rep 2 (6)		8375	21.9359	1250		39	2.2		1.5
Rep 3									

9/17/04 Shrimp Pots

9/17 EP-ST

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 (7)	29.	6567	26913	0908		50'	9.5		1.6
Rep 2 (8)		6650	6704	0910		40'	9.5		1.5
Rep 3 (9)		6360	6911	0912		58'	9.5		1.6
(10)		6013	5830	0915		52'	9.4		1.6
(11)		5881	5487	0916		50'	9.4		1.6

DNR.org Fig. E1

Station No.		Coordinates: NAD 83, Dec.Min Latitude 47°	Longitude 122°	GPS Time	Dist. to Target (m.)	Depth (m.)	Predicted Tide (m.)	Predicted Mudline (m)	GPS Status HDOP
	Target:								
Rep 1 (12)		5551	5112	0920		58'	9.3		1.6 — 10.9
Rep 2 (13)	29.	1951	21.9856	0927		55'	9.1		1.6
Rep 3 (14)		2103	22.0051	0929		58'	9.1		1.6
(15)		2607	0577	0931		50'	9.0		1.6
(16)		3055	1608	0934		62'	8.9		1.6
(17)		3566	1456	0936		56'	8.9		1.6
(18)		3934	2003	0938		60'	8.8		1.6

(1)

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Seahurst Park

STATION NO. EP-TR01 DATE: 9/16

I. Start Set	II. Start Tow	III. End
Depth: 129'	Depth: 133'	Depth: 130
DGPS Latitude/Long. 28.987 22.083	DGPS Latitude/Long. 841 148	DGPS Latitude/Long. 172 455
DGPS Time: 1306	DGPS Time: 1310	DGPS Time: 1329
Course over Ground (COG):	Course over Ground (COG): 5.	Magnetic Bearing:
Wire Out: 700' Tide: 2.2	2.2	Distance Trawled = .70 Trawl Speed = 2.5

1/0m

lots of sole

19 min

1297m 198°T

flood

02

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 47'	Depth: 50'	Depth: 66'
DGPS Latitude/Long. 28.329 22.229	DGPS Latitude/Long. 407 181	DGPS Latitude/Long. 620 092
DGPS Time: 1420	DGPS Time: 1423	DGPS Time: 1428
Course over Ground (COG):	Course over Ground (COG): N.	Magnetic Bearing:
Wire Out: 350' Tide: 3.6	3.7	Distance Trawled = .22 Trawl Speed = 3.8

5 min

410m 17°T

03

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 218	Depth: 205'	Depth: 200'
DGPS Latitude/Long. 28.228 22.677	DGPS Latitude/Long. 009 694	DGPS Latitude/Long. 27.763 22.633
DGPS Time: 1446	DGPS Time: 1452	DGPS Time: 1457
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 1000' Tide: 4.5	4.7	Distance Trawled = .25 Trawl Speed = 4.9

60m

5 min

462m 171°T

(2)

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STATION NO. 04 (115') 35m.

DATE: 9/16

I. Start Set	II. Start Tow	III. End
Depth: 123'	Depth: 120'	Depth: 132'
DGPS Latitude/Long. 27.276 22.708	DGPS Latitude/Long. 192 854	DGPS Latitude/Long. 27.035 23.209
DGPS Time: 1521	DGPS Time: 1524	DGPS Time: 1531
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 600' Tide: 5.8	5.9 531m. 238°T	Distance Trawled = .29 Trawl Speed = 6.1 ~~810m~~

EP/TROS

STATION NO.

DATE: 9/17

I. Start Set	II. Start Tow	III. End
Depth: 60	Depth: 78'	Depth: 65'
DGPS Latitude/Long. 29.384 22.240	DGPS Latitude/Long. 430 325	DGPS Latitude/Long. 703 831
DGPS Time: 0952	DGPS Time: 0955	DGPS Time: 1005 10 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 370 Tide: 8.4	NW 8.3	Distance Trawled = .44 Trawl Speed = 8.0 810m. 310°T

(06) 130' 40m.

STATION NO.

DATE:

I. Start Set	II. Start Tow	III. End
Depth: 134'	Depth: 131'	Depth: 142'
DGPS Latitude/Long. 29.359 22.336	DGPS Latitude/Long. 447 527	DGPS Latitude/Long. 29.796 23.066
DGPS Time: 1021	DGPS Time: 1024	DGPS Time: 1037 11 min
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 700' Tide: 7.5	7.4	Distance Trawled = .50 mm Trawl Speed = 7.0 930m 315°T

3

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9/17 South of 3-Tree Pt.

07

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 133'	Depth: 131	Depth: 125'
DGPS Latitude/Long. 26.741 22.236	DGPS Latitude/Long. 805 456	DGPS Latitude/Long. 943 953
DGPS Time: 1127	DGPS Time: 1131	DGPS Time: 1140
Course over Ground (COG):	Course over Ground (COG): West	Magnetic Bearing:
Wire Out: 430' Tide: 5.5	5.3	Distance Trawled = .37m Trawl Speed = 5.0

.67m. 293°T

08

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 155'	Depth: 152'	Depth: 157'
DGPS Latitude/Long. 26.708 22.225	DGPS Latitude/Long. 786 471	DGPS Latitude/Long. 26.934 23.184
DGPS Time: 1200	DGPS Time: 1205	DGPS Time: 1217
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 850 Tide: 4.5	4.4	Distance Trawled = .50 Trawl Speed = 4.1

.934m. 288°T

09

35m. 115'

STATION NO. S. of Pt. Beals DATE: 9/17

I. Start Set	II. Start Tow	III. End
Depth: 143	Depth: 130'	Depth: 146'
DGPS Latitude/Long. 27.351 26.124	DGPS Latitude/Long. 522 074	DGPS Latitude/Long. 28.036 25.907
DGPS Time: 1246	DGPS Time: 1250	DGPS Time: 1303
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 750' Tide: 3.6	3.5	Distance Trawled = .53 Trawl Speed = 3.4

.975m. 13°T

4

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10

STATION NO. Seahurst DATE: 9/17

I. Start Set	II. Start Tow	III. End
Depth: 21	Depth: 21	Depth: 19'
DGPS Latitude/Long. 28.576 22.044	DGPS Latitude/Long. 551 044	DGPS Latitude/Long. 434 130
DGPS Time: 1503	DGPS Time: 1504	DGPS Time: 1508 4min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' Tide: 4.8	4.8	Distance Trawled = .13 2.42m. 207°T Trawl Speed = 4.9

1m. 23' 150'

11

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 48'	Depth: 44'	Depth: 42'
DGPS Latitude/Long. 28.305 22.232	DGPS Latitude/Long. 352 208	DGPS Latitude/Long. 28.562 22.070
DGPS Time: 1554	DGPS Time: 1556	DGPS Time: 1601
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 250' Tide: 6.4	6.5	Distance Trawled = .23 4.26m. 25°T Trawl Speed = 6.6

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

TR01	~~144' 9.3~~	~~28.6386~~	~~1715~~	~~1.3~~	
	145 9.4	~~22.2335~~			
TR03		28.6190	1718	1.3	
		22.2432			
CT-03	130' 8.9'	28.8250	1703	1.1	
		22.1402			
CT-04	~~126' 8.8'~~	~~28.8241~~	~~1659~~	~~ER SED02~~	
		~~22.1273~~			
TR-10	~~24' 28.4802~~		~~1644~~	EP-SED01	
	~~22.1070~~				
	27' 8.5	28.4479	1648	~~EP-SED02~~	
		22.1334			
TR-03	211'	27.9257	1730	1.3	
		22.6918			
CT-11/12	111' 10.5	28.6403	1750	1.3	
		22.1754			

STATION NO. BL-TR06 DATE: 10/7

I. Start Set	II. Start Tow	III. End
Depth: 140	Depth: 142	Depth: 139
DGPS Latitude/Long. 32.678 31.773	DGPS Latitude/Long. 838 803	DGPS Latitude/Long. 33.588 31.807
DGPS Time: 0959	DGPS Time: 1003	DGPS Time: 1021 18 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 700 Tide: 5.9	6.0	Distance Trawled = .75 (1398 m.) Trawl Speed = 6.6

19 Seahorns
18 Shiners

STATION NO. BL-TR07 DATE:

I. Start Set	II. Start Tow	III. End
Depth: 136	Depth: 146	Depth: 132
DGPS Latitude/Long. 33.617 31.815	DGPS Latitude/Long. 454 825	DGPS Latitude/Long. 32.671 31.811
DGPS Time: 1040	DGPS Time: 1044	DGPS Time: 1104 20 min
Course over Ground (COG): South	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 740 Tide: 7.2	7.3	Distance Trawled = .78 1450 m. Trawl Speed = 7.9 179°

STATION NO. EP-TR12 DATE:

I. Start Set	II. Start Tow	III. End
Depth: 17'	Depth: 19'	Depth: 16'
DGPS Latitude/Long. 28.510 22.045	DGPS Latitude/Long. 477 079	DGPS Latitude/Long. 292 199
DGPS Time: 1322	DGPS Time: 1322	DGPS Time: 1327 5 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150 Tide: 10.5		Distance Trawled = .20 373 m Trawl Speed = 10.6 205° T

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EP TR 13

STATION NO. DATE: 10/7/04

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 18'	Depth: 23'
DGPS Latitude/Long. 28.223 22.254	DGPS Latitude/Long. 253 228	DGPS Latitude/Long. 485 094
DGPS Time: 1405	DGPS Time: 1406	DGPS Time: 1412 6 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' wire 10.8 Tide:	10.8'	Distance Trawled = .25 464m. Trawl Speed = 10.8 20°T

EP TR

STATION NO. DATE:

I. Start Set 14	II. Start Tow	III. End
Depth: 117	Depth: 127'	Depth: 120'
DGPS Latitude/Long. 28.916 22.090	DGPS Latitude/Long. 792 142	DGPS Latitude/Long. 289 329
DGPS Time: 1435	DGPS Time: 1439	DGPS Time: 1452 13 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 650' Tide: 10.8	10.8'	Distance Trawled = .52 961m. Trawl Speed = 10.8 195°T

15

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 15'	Depth: 14'
DGPS Latitude/Long. 28.208 22.270	DGPS Latitude/Long. 230 242	DGPS Latitude/Long. 496 041
DGPS Time: 1510	DGPS Time: 1510	DGPS Time: 1518 10 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: .30 m
Wire Out: 125' Tide: 10.6		Distance Trawled = 553 m Trawl Speed = 10.6 280°T

ER-TR-

16

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 19	Depth: 20'	Depth: 27'
DGPS Latitude/Long. 28.503 22.063	DGPS Latitude/Long. 481 083	DGPS Latitude/Long. 241 242
DGPS Time: 1530	DGPS Time: 1530	DGPS Time: 1537
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing: 487m.
Wire Out: 150' Tide: 10.5	10.5	Distance Trawled = .26 Trawl Speed = 10.4 205°T

17

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20	Depth: 18	Depth: 19
DGPS Latitude/Long. 29.437 22.179	DGPS Latitude/Long. 466 216	DGPS Latitude/Long. 524 329
DGPS Time: 1606	DGPS Time: 1607	DGPS Time: 1610
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' Tide: 10.0	10.0	Distance Trawled = .10 Trawl Speed = 9.9 308°mT. 178m

18

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 14'	Depth: 14'	Depth: 17'
DGPS Latitude/Long. 29.580 22.377	DGPS Latitude/Long. 602 398	DGPS Latitude/Long. 748 720
DGPS Time: 1633	DGPS Time: 1634	DGPS Time: 1640
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 100' Tide: 9.6		Distance Trawled = .26 Trawl Speed = 9.4 485m. 305°T

19

STATION NO. DATE: 10/7/04

I. Start Set	II. Start Tow	III. End
Depth: 45'	Depth: 38	Depth: 40'
DGPS Latitude/Long. 29.701 22.764	DGPS Latitude/Long. 673 692	DGPS Latitude/Long. 505 358
DGPS Time: 1655	DGPS Time: 1656	DGPS Time: 1703 7 min.
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 250' Tide: 9.2	9.2	Distance Trawled = .28? Trawl Speed = 9.1

521m 128T

20

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth: 20'	Depth: 18'	Depth: ~~20'~~ 18
DGPS Latitude/Long. 28.513 22.068	DGPS Latitude/Long. 479 086	DGPS Latitude/Long. 229 245
DGPS Time: 1720	DGPS Time: 1721	DGPS Time: 1728
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: 150' Tide: 8.7	8.7	Distance Trawled = .27nm 504m. Trawl Speed = 8.6 204°T

STATION NO. DATE:

I. Start Set	II. Start Tow	III. End
Depth:	Depth:	Depth:
DGPS Latitude/Long.	DGPS Latitude/Long.	DGPS Latitude/Long.
DGPS Time:	DGPS Time:	DGPS Time:
Course over Ground (COG):	Course over Ground (COG):	Magnetic Bearing:
Wire Out: Tide:		Distance Trawled = Trawl Speed =

Windward Environmental

Blake Island Trawls

September, 2004 — **High Rise 7.6-meter SCCWRP Trawl**

Station Name	Date		Time	Depth (feet)	Predicted Tide	Mudline Depth (feet)	Wire Out (feet)	Northstar DGPS (NAD 83) Latitude decimal min.	Longitude decimal min.	Trawl Distance & Direction/Time Comments
BL TR-01	16-Sep-04	**Start Set**	1023	41	1.4	-40		47 31.796	122 32.123	0.31 nm
		Start Tow	1025	41	1.4	-40	225	47 31.842	122 32.084	(574 meters)
		End	1032	44	1.2	-43		47 32.131	122 31.928	26° true, 7 min.
					ebb					
BL TR-02	16-Sep-04	**Start Set**	1101	48	0.8	-47		47 31.858	122 31.728	0.28 nm
		Start Tow	1102	45	0.8	-44	225	47 31.899	122 31.733	(519 meters)
		End	1110	45	0.8	-44		47 32.178	122 31.662	365° true, 8 min.
					low ebb					
BL TR-03	16-Sep-04	**Start Set**	1130	78	0.7	-77		47 31.841	122 31.637	0.31 nm
		Start Tow	1132	83	0.7	-82	400	47 31.914	122 31.643	(572 meters)
		End	1140	79	0.7	-78		47 32.221	122 31.590	008° true, 8 min.
					low					
BL TR-04	16-Sep-04	**Start Set**	1157	76	0.8	-75		47 32.465	122 32.113	0.51 nm
		Start Tow	1159	79	0.8	-78	400	47 32.548	122 32.117	(945 meters)
		End	1211	75	1.0	-74		47 33.043	122 32.283	359° true, 12 min.
					low flood					
BL TR-05	17-Sep-04	**Start Set**	1226	128	1.3	-127		47 32.636	122 31.787	0.75 nm
		Start Tow	1230	134	1.3	-133	700	47 32.803	122 31.811	(1390 meters)
		End	1247	137	1.8	-135		47 33.558	122 31.809	002° true, 18 min.
					flood					
BL TR-06	7-Oct-04	**Start Set**	0959	140	5.9	-134		47 32.678	122 31.773	0.75 nm
		Start Tow	1003	142	6.0	-136	700	47 32.838	122 31.803	(1398 meters)
		End	1021	139	6.6	-132		47 33.588	122 31.807	001° true, 18 min.
					flood					
BL TR-07	7-Oct-04	**Start Set**	1040	136	7.2	-129		47 33.617	122 31.815	0.78 nm
		Start Tow	1044	146	7.3	-139	740	47 33.454	122 31.825	(1450 meters)
		End	1104	132	7.9	-124		47 32.671	122 31.811	179° true, 20 min.
					flood					

Windward Environmental

East Pass Trawls

September, 2004 — **High Rise 7.6-meter SCCWRP Trawl**

Station Name	Date		Time	Depth (feet)	Predicted Tide	Mudline Depth (feet)	Wire Out (feet)	Northstar DGPS (NAD 83) Latitude decimal min.	Longitude decimal min.	Trawl Distance & Direction/Time Comments
EP TR-01	16-Sep-04	Start Set	1306	129	2.2	-127		47 28.987	122 22.083	0.70 nm
		Start Tow	1310	133	2.2	-131	700	47 28.841	122 22.148	(1296 meters)
		End	1329	130	2.5	-128		47 28.172	122 22.455	198° true, 19 min.
					flood					
EP TR-02	16-Sep-04	Start Set	1420	47	3.6	-43		47 31.858	122 31.728	0.22 nm
		Start Tow	1423	50	3.7	-46	350	47 31.899	122 31.733	(407 meters)
		End	1428	66	3.8	-62		47 32.178	122 31.662	17° true, 5 min.
					flood					
EP TR-03	16-Sep-04	Start Set	1446	218	4.5	-214		47 31.841	122 31.637	0..25 nm
		Start Tow	1452	205	4.7	-200	1000	47 31.914	122 31.643	(463 meters)
		End	1457	200	4.9	-195		47 32.221	122 31.590	171° true, 5 min.
					flood					
EP TR-04	16-Sep-04	Start Set	1521	123	5.8	-117		47 32.465	122 32.113	0.29 nm
		Start Tow	1524	120	5.9	-114	600	47 32.548	122 32.117	(531 meters)
		End	1531	132	6.1	-126		47 33.043	122 32.283	238° true, 7 min.
					flood					
EP TR-05	17-Sep-04	Start Set	0952	60	8.4	-52		47 29.384	122 22.240	0.44 nm
		Start Tow	0955	78	8.3	-70	370	47 29.430	122 22.325	(815 meters)
		End	1005	65	8.0	-57		47 29.703	122 22.831	310° true, 10 min.
					ebb					
EP TR-06	17-Sep-04	Start Set	1021	134	7.5	-127		47 29.359	122 22.336	0.50 nm
		Start Tow	1024	131	7.4	-124	370	47 29.447	122 22.527	(930 meters)
		End	1037	142	7.0	-135		47 29.796	122 23.066	315° true, 11 min.
					ebb					
EP TR-07	17-Sep-04	Start Set	1127	133	5.5	-128		47 26.741	122 22.236	0.37 nm
		Start Tow	1131	131	5.3	-126	730	47 26.805	122 22.456	(673 meters)
		End	1140	125	5.0	-120		47 26.943	122 22.953	293° true, 9 min.
					ebb					
EP TR-08	17-Sep-04	Start Set	1200	155	4.5	-151		47 26.708	122 22.225	0.50 nm
		Start Tow	1205	152	4.4	-148	850	47 26.786	122 22.471	(934 meters)
		End	1217	157	4.1	-153		47 26.934	122 23.184	288° true, 12 min.
					ebb					
EP TR-09	17-Sep-04	Start Set	1246	143	3.6	-139		47 27.351	122 26.124	0.53 nm
		Start Tow	1250	130	3.5	-127	750	47 27.522	122 26.074	(975 meters)
		End	1303	146	3.4	-143		47 28.036	122 25.907	13° true, 8 min.
					ebb					
EP TR-10	17-Sep-04	Start Set	1503	21	4.8	-16		47 28.576	122 22.044	0.13 nm
		Start Tow	1504	21	4.8	-16	150	47 28.551	122 22.044	(242 meters)
		End	1508	19	4.9	-14		47 28.434	122 22.130	207° true, 4 min.
					flood					
EP TR-11	17-Sep-04	Start Set	1554	48	6.4	-42		47 28.305	122 22.232	0.23 nm
		Start Tow	1556	44	6.5	-38	250	47 28.352	122 22.208	(426 meters)
		End	1601	42	6.6	-35		47 28.562	122 22.070	25° true, 5 min.
					flood					
EP TR-11	17-Sep-04	Start Set	1554	48	6.4	-42		47 28.305	122 22.232	0.23 nm
		Start Tow	1556	44	6.5	-38	250	47 28.352	122 22.208	(426 meters)
		End	1601	42	6.6	-35		47 28.562	122 22.070	25° true, 5 min.
					flood					

Windward Environmental

East Pass Trawls

September, 2004 — **High Rise 7.6-meter SCCWRP Trawl**

Station Name	Date		Time	Depth (feet)	Predicted Tide	Mudline Depth (feet)	Wire Out (feet)	Northstar DGPS (NAD 83) Latitude decimal min.	Longitude decimal min.	Trawl Distance & Direction/Time Comments
EP TR-12	7-Oct-04	**Start Set**	1322	17	10.5	-7		47 28.510	122 22.045	0.20 nm
		Start Tow	1322	19	10.5	-9	150	47 28.477	122 22.079	(373 meters)
		End	1327	16	10.6	-5		47 28.292	122 22.199	205° true, 5 min.
					flood					
EP TR-13	7-Oct-04	**Start Set**	1405	20	10.8	-9		47 28.223	122 22.254	0.25 nm
		Start Tow	1406	18	10.8	-7	150	47 28.253	122 22.228	(464 meters)
		End	1412	23	10.8	-12		47 28.485	122 22.094	22° true, 6 min.
					high flood					
EP TR-14	7-Oct-04	**Start Set**	1435	117	10.8	-106		47 28.916	122 22.090	0.52 nm
		Start Tow	1439	127	10.8	-116	650	47 28.792	122 22.142	(961 meters)
		End	1452	120	10.8	-109		47 28.289	122 22.329	195° true, 13 min.
					high					
EP TR-15	7-Oct-04	**Start Set**	1510	20	10.6	-9		47 28.208	122 22.270	0.30 nm
		Start Tow	1510	15	10.6	-4	125	47 28.230	122 22.242	(553 meters)
		End	1518	14	10.6	-3		47 28.496	122 22.041	28° true, 8 min.
					high ebb					
EP TR-16	7-Oct-04	**Start Set**	1530	19	10.5	-9		47 28.503	122 22.063	0.26 nm
		Start Tow	1530	20	10.5	-10	150	47 28.481	122 22.083	(487 meters)
		End	1537	27	10.4	-17		47 28.241	122 22.242	205° true, 7 min.
					ebb					
EP TR-17	7-Oct-04	**Start Set**	1606	20	10.5	-10		47 29.437	122 22.179	0.10 nm
		Start Tow	1607	18	10.5	-8	150	47 29.466	122 22.216	(178 meters)
		End	1610	19	10.4	-9		47 29.524	122 22.329	308° true, 3 min.
					ebb					
EP TR-18	7-Oct-04	**Start Set**	1633	14	9.6	-4		47 29.586	122 22.377	0.26 nm
		Start Tow	1634	14	9.6	-4	100	47 29.602	122 22.398	(485 meters)
		End	1640	17	9.4	-8		47 29.748	122 22.720	305° true, 6 min.
					ebb					
EP TR-19	7-Oct-04	**Start Set**	1655	45	9.2	-36		47 29.701	122 22.764	0.26 nm
		Start Tow	1656	38	9.2	-29	250	47 29.673	122 22.692	(485 meters)
		End	1703	40	9.1	-31		47 29.505	122 22.358	305° true, 6 min.
					ebb					
EP TR-20	7-Oct-04	**Start Set**	1720	20	8.7	-11		47 28.513	122 22.068	0.27 nm
		Start Tow	1721	18	8.7	-9	150	47 28.479	122 22.086	(504 meters)
		End	1728	18	8.6	-9		47 28.229	122 22.245	204° true, 7 min.
					ebb					