

Appendix A

Tables A-1 through A-5

Table A-1
Geoduck Tissue Sampling Station Coordinates
Candidate Marine Outfall Zones

Locator	State Plane Coordinates¹		Sampling Depth²	Candidate Outfall Zone
	Northing	Easting		
GDK6-1E	296026	1255529	26	6
GDK6-1W	296026	1255529	26	6
GDK6-2E	296083	1255175	43	6
GDK6-2W	296083	1255175	43	6
GDK6-3E	296944	1255705	46 - 62	6
GDK6-3W	296944	1255705	46 - 62	6
GDK7N-1E	292575	1256278	17 - 27	7N
GDK7N-1W	292575	1256278	17 - 27	7N
GDK7N-2E	292444	1255716	41 - 44	7N
GDK7N-2W	292444	1255716	41 - 44	7N
GDK7N-3E	292444	1255716	64	7N
GDK7N-3W	292444	1255716	64	7N
GDK7S-1E	288148	1255704	21	7S
GDK7S-1W	288148	1255704	21	7S
GDK7S-2E	287921	1255385	41	7S
GDK7S-2W	287921	1255385	41	7S
GDK7S-3E	287921	1255385	65	7S
GDK7S-3W	287921	1255385	65	7S

Notes

- 1 - North American Datum (NAD) 83
- 2 - Depth (in feet) at which geoducks were collected, referenced to mean lower low water (MLLW).
 A range in depths indicates that geoducks were sparse at this station and the three geoducks intended for tissue analysis were collected from three different locations within the depth range.

Table A-2
Geoduck Physical Characteristics
Candidate Marine Outfall Zones

Locator	Sample Information			Physical Characteristics ³			
	Zone	Depth (ft) ¹	Portion ²	Age (years)	Weight (Kg)	% Solids	% Lipids
GDK6-1E	6	26	Edible	85	1.233	19.3	0.22
GDK6-1W	6	26	Whole	93	1.374	17.8	0.34
GDK6-1W*	6	26	Whole	54	1.257	--	--
GDK6-2E	6	43	Edible	57	1.397	20.6	0.21
GDK6-2W	6	43	Whole	54	1.120	16.5	0.21
GDK6-2W*	6	43	Whole	54	1.099	--	--
GDK6-3E	6	46 - 62	Edible	39	1.712	17.0	0.15
GDK6-3W	6	46 - 62	Whole	44	1.462	20.0	0.74
GDK6-3W*	6	46 - 62	Whole	9	0.872	--	--
GDK7N-1E	7N	17 - 27	Edible	18	1.224	23.0	0.69
GDK7N-1W	7N	17 - 27	Whole	95	1.954	16.2	0.25
GDK7N-1W*	7N	17 - 27	Whole	85	1.459	--	--
GDK7N-2E	7N	41 - 44	Edible	88	1.163	20.4	0.28
GDK7N-2W	7N	41 - 44	Whole	74	0.980	16.9	0.20
GDK7N-2W*	7N	41 - 44	Whole	47	0.931	--	--
GDK7N-3E	7N	64	Edible	77	0.633	20.6	0.26
GDK7N-3W	7N	64	Whole	50	0.735	14.7	0.25
GDK7N-3W*	7N	64	Whole	38	0.962	--	--
GDK7S-1E	7S	21	Edible	9	1.162	20.6	0.21
GDK7S-1W	7S	21	Whole	26	1.543	22.3	0.58
GDK7S-1W*	7S	21	Whole	18	1.348	--	--
GDK7S-2E	7S	41	Edible	54	1.237	18.6	0.11
GDK7S-2W	7S	41	Whole	64	1.118	17.7	0.20
GDK7S-2W*	7S	41	Whole	59	0.893	--	--
GDK7S-3E	7S	65	Edible	9	0.553	20.3	0.22
GDK7S-3W	7S	65	Whole	41	0.855	16.5	0.26
GDK7S-3W*	7S	65	Whole	18	0.757	--	--

Notes

- 1 - Depth (in feet) at which geoducks were collected, referenced to mean lower low water. A range in depths indicates that geoducks were sparse at this station and the three geoducks intended for tissue analysis were collected from three different locations within the depth range.
 - 2 - Edible portion samples had the siphon skin and visceral ball removed prior to tissue homogenization.
 - 3 - Weight, % Solids, and % Lipids reported on a wet weight basis.
- Kg - Kilograms.
- * - A separate whole geoduck sample was collected specifically for microbiological analyses. Percent solids and percent lipids analyses were not performed on these samples.

Table A-3
Geoduck Tissue Microbiology Analytical Results
Candidate Marine Outfall Zones

Locator	Sample Information			Concentration (MPN/100g wet weight)		
	Zone	Depth (ft) ¹	Portion	Fecal Coliform	Enterococcus	<i>Escherichia coli</i>
GDK6-1W	6	26	Whole	20	110	20
GDK6-2W	6	43	Whole	<MDL (20)	220	<MDL (20)
GDK6-3W	6	46 - 62	Whole	310	170	310
GDK7N-1W	7N	17 - 27	Whole	110	70	110
GDK7N-2W	7N	41 - 44	Whole	<MDL (20)	20	<MDL (20)
GDK7N-3W	7N	64	Whole	<MDL (20)	40	20
GDK7S-1W	7S	21	Whole	110	50	70
GDK7S-2W	7S	41	Whole	210	110	210
GDK7S-3W	7S	65	Whole	110	20	70

Notes

1 - Depth (in feet) at which geoducks were collected, referenced to mean lower low water. A range in depths indicates that geoducks were sparse at this station and the three geoducks intended for tissue analysis were collected from three different locations within the depth range.

MPN/100g - Most Probable Number per 100 grams (on a wet weight basis).

<MDL (#) - Reported analytical result is less than the method detection limit - the number in parentheses is the numeric MDL.

Table A-4
Geoduck Tissue Trace Metal Analytical Results
Candidate Marine Outfall Zones

Locator	Sample Information			Concentration (mg/Kg wet weight)											
	Zone	Depth (ft) ¹	Portion ²	Antimony	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Tin ³	Zinc
GDK6-1E	6	26	Edible	<MDL (0.02)	3.74	0.226	0.303	14.4	0.022	0.0345	0.0786	1.3	1.86	0.034	15.3
GDK6-1W	6	26	Whole	0.048	6.89	0.319	0.622	6.12	2.32	0.0361	0.816	1.2	8.20	0.109	13.0
GDK6-2E	6	43	Edible	<MDL (0.02)	2.50	0.10	0.16	3.81	0.022	0.0249	0.64	1.0	1.64	0.0661	11.3
GDK6-2W	6	43	Whole	0.063	2.92	0.321	0.428	5.01	1.78	0.0228	0.833	1.8	5.53	0.054	12.8
GDK6-3E	6	46 - 62	Edible	<MDL (0.02)	1.7	0.097	0.13	3.69	0.017	0.014	0.247	1.2	1.42	0.0782	10.7
GDK6-3W	6	46 - 62	Whole	0.075	5.92	0.214	0.42	12.6	2.89	0.0222	0.628	2.0	2.76	0.046	61.3
GDK7N-1E	7N	17 - 27	Edible	<MDL (0.02)	2.0	0.049	0.10	10.8	0.014	0.0049	0.217	0.89	0.630	0.026	47.3
GDK7N-1W	7N	17 - 27	Whole	0.035	3.63	0.241	0.394	5.87	1.70	0.0318	0.599	1.2	5.45	0.112	11.7
GDK7N-2E	7N	41 - 44	Edible	<MDL (0.02)	3.46	0.12	0.22	7.44	0.032	0.0220	0.0968	1.1	1.79	0.0611	16.6
GDK7N-2W	7N	41 - 44	Whole	0.075	3.63	0.307	0.443	5.23	3.60	0.0300	0.798	1.8	6.35	0.030	15.3
GDK7N-3E	7N	64	Edible	<MDL (0.02)	2.62	0.196	0.19	6.01	0.037	0.0262	0.23	0.78	2.32	0.106	15.8
GDK7N-3W	7N	64	Whole	0.099	2.53	0.263	0.334	5.05	2.63	0.0180	0.589	1.0	4.15	0.0981	11.6
GDK7S-1E	7S	21	Edible	<MDL (0.02)	1.4	0.094	0.11	6.51	0.022	0.0045	0.168	0.65	0.15	0.0691	8.21
GDK7S-1W	7S	21	Whole	<MDL (0.02)	2.0	0.260	0.303	5.26	0.201	0.011	0.313	1.2	1.19	0.182	24.6
GDK7S-2E	7S	41	Edible	<MDL (0.02)	2.4	0.173	0.22	5.98	0.291	0.0228	0.195	0.66	1.15	0.0727	10.1
GDK7S-2W	7S	41	Whole	0.108	3.95	0.272	0.428	5.85	3.79	0.0248	0.608	1.5	3.32	0.0733	16.5
GDK7S-3E	7S	65	Edible	<MDL (0.02)	1.4	0.045	0.16	5.35	0.017	0.0069	0.118	0.57	0.264	0.0864	7.51
GDK7S-3W	7S	65	Whole	0.068	1.9	0.452	0.272	10.7	4.71	0.0228	1.3	1.7	4.01	0.025	12.1

Notes

- 1 - Depth (in feet) at which geoducks were collected, referenced to mean lower low water. A range in depths indicates that geoducks were sparse at this station and the three geoducks intended for tissue analysis were collected from three different locations within the depth range.
 - 2 - Edible portion samples had the siphon skin and visceral ball removed prior to tissue homogenization.
 - 3 - Reported tin results are qualified as "estimated" based on laboratory quality control sample results.
- mg/Kg - Milligrams per kilogram (on a wet weight basis).
 <MDL (#) - Reported analytical result is less than the *method detection limit* - the number in parentheses is the numeric MDL.

Table A-5
Geoduck Tissue Trace Organic Analytical Results
Candidate Marine Outfall Zones

Locator	Sample Information			Concentration (µg/Kg wet weight)					
	Zone	Depth (ft) ¹	Portion ²	Alpha-BHC	Beta-BHC	Gamma-BHC	Benzoic Acid	Benzyl Alcohol	B2EHP ³
GDK6-1E	6	26	Edible	6.41	<MDL (1.3)	<MDL (1.3)	1,290	<MDL (53)	136
GDK6-1W	6	26	Whole	7.01	<MDL (1.3)	<MDL (1.3)	6,740	<MDL (53)	62.6
GDK6-2E	6	43	Edible	15.3	<MDL (1.3)	1.4	230	<MDL (53)	151
GDK6-2W	6	43	Whole	6.92	<MDL (1.3)	<MDL (1.3)	7,120	<MDL (53)	48
GDK6-3E	6	46 - 62	Edible	8.41	<MDL (1.3)	<MDL (1.3)	510	<MDL (53)	78.3
GDK6-3W	6	46 - 62	Whole	7.01	4.19	<MDL (1.3)	11,000	<MDL (53)	78.0
GDK7N-1E	7N	17 - 27	Edible	3.41	2.4	<MDL (1.3)	<MDL (210)	<MDL (53)	223
GDK7N-1W	7N	17 - 27	Whole	14.9	7.19	<MDL (1.3)	4,400	<MDL (53)	139
GDK7N-2E	7N	41 - 44	Edible	19.0	7.11	1.6	472	<MDL (53)	191
GDK7N-2W	7N	41 - 44	Whole	7.09	1.8	<MDL (1.3)	13,900	<MDL (53)	<MDL (32)
GDK7N-3E	7N	64	Edible	8.83	<MDL (1.3)	<MDL (1.3)	342	<MDL (53)	445
GDK7N-3W	7N	64	Whole	3.05	<MDL (1.3)	<MDL (1.3)	19,200	100	<MDL (32)
GDK7S-1E	7S	21	Edible	3.85	2.3	<MDL (1.3)	418	<MDL (53)	138
GDK7S-1W	7S	21	Whole	9.81	2.1	<MDL (1.3)	1,180	<MDL (53)	125
GDK7S-2E	7S	41	Edible	3.51	3.13	<MDL (1.3)	446	<MDL (53)	117
GDK7S-2W	7S	41	Whole	1.8	1.8	<MDL (1.3)	15,800	<MDL (53)	55.6
GDK7S-3E	7S	65	Edible	4.96	5.72	<MDL (1.3)	1,290	<MDL (53)	94.9
GDK7S-3W	7S	65	Whole	2.70	2.0	<MDL (1.3)	26,000	64	73.0

Notes

1 - Depth (in feet) at which geoducks were collected, referenced to mean lower low water. A range in depths indicates that geoducks were sparse at this station and the three geoducks intended for tissue analysis were collected from three different locations within the depth range.

2 - Edible portion samples had the siphon skin and visceral ball removed prior to tissue homogenization.

3 - Bis(2-ethylhexyl)phthalate

µg/Kg - Micrograms per kilogram (on a wet weight basis).

<MDL (#) - Reported analytical result is less than the *method detection limit* - the number in parentheses is the numeric MDL.