

TABLE 1
Vibracore Sample Summary

Subsample ID:	Date	Time	Easting ¹ (feet, NAD 83)	Northing ¹ (feet, NAD 83)	Project Depth (feet, MLLW)	Metrics Per Core Sample							Notes	
						Water Depth (feet)	Water Surface Elevation ² (feet, MLLW)	Top of Core Elevation ³ (feet, MLLW)	Actual Penetration (feet)	Actual Recovery (feet)	Effective Bottom of Core Elevation (feet, MLLW)	Effective Penetration Length per Core (feet)		Effective Recovery per Core ⁴ (%)
SYC14-AC-A	6/4/14	7:11	366551	2324407	-39	18.75	0.66	-18.1	17.1	14.2	-35.2	17.1	83	1 core sample collected. Refusal at 17 ft.
SYC14-AC-B	6/4/14	7:48	366232	2324354	-39	28.8	0.89	-27.9	11.1	7.6	-39.0	11.1	68	1 core sample collected. H ₂ S odor present.
SYC14-AC-C	6/4/14	8:13	366043	2324749	-39	18.5	1.00	-17.5	20.4	15.1	-37.9	20.4	74	Took 2 attempts. 1st attempt hit abstraction so emptied barrel and went for a 2nd core. 2nd core hit refusal at 20 ft.
SYC14-AC-D	6/4/14	8:50	365626	2325238	-12	7.2	1.44	-5.8	6.2	5.3	-12.0	6.2	85	1 core sample collected. H ₂ S odor present.
SYC14-AC-E	6/4/14	9:25	365546	2324856	-39	28.5	1.99	-26.5	12.5	8.8	-39.0	12.5	70	1 core sample collected. H ₂ S odor present.
SYC14-AC-F	6/4/14	9:52	365226	2325285	-39	23.3	2.59	-20.7	18.3	13.3	-39.0	18.3	73	1 core sample collected. Refusal at 17 feet 3 inches.
SYC14-TB-A	6/2/14	8:58	367255	2323546	-39	23.75	3.00	-20.8	18.3	12.5	-39.1	18.3	68	Took 2 attempts. 1st attempt didn't stay in the barrel so collected a 2nd core. Kept 2nd core sample.
SYC14-TB-B	6/2/14	9:59	367055	2323424	-39	23.58	3.88	-19.7	19.3	15.1	-39.0	19.3	78	1 core sample collected. H ₂ S odor present.
SYC14-TB-C	6/2/14	10:41	367313	2323921	-39	24.4	4.24	-20.2	18.8	13.4	-38.5	18.8	71	1 core sample collected. H ₂ S odor present.
SYC14-TB-D	6/2/14	11:36	366845	2323641	-39	24.6	4.54	-20.1	18.9	12.5	-39.0	18.9	66	1 core sample collected. H ₂ S odor present.
SYC14-TB-E	6/2/14	12:18	367035	2324154	-39	24.25	4.51	-19.7	19.3	13.8	-39.0	19.3	72	1 core sample collected. H ₂ S odor present.
SYC14-TB-F	6/2/14	13:26	366722	2324090	-39	33.33	3.90	-29.4	9.6	7.3	-39.0	9.6	76	1 core sample collected. H ₂ S odor present.

¹ Datum NAD 83, South Carolina State Plane (feet).

² Water surface elevation is based on real-time tide height data at MLLW from NOAA Station ID 8665530 at Charleston, South Carolina.

³ Calculated as the sum of recorded water depth (- feet) and real-time tide height data at MLLW from NOAA Station ID 8665530 at Charleston, South Carolina.

⁴ Effective recovery length excludes material from below project depth that was lost during retrieval or intentionally discarded.

Source: ANAMAR Environmental Consulting, Inc.

TABLE 2

Reference and Site Water Sample Summary Including Water Column Measurements

Sample ID:	Site Water						Reference
	SYC14-ODMDS-SW			SYC14-SW			SYC14-REF
Date	06/03/2014			06/04/2014			06/03/2014
Sampling Start/End Times (EST)	0926-1020			1029-1130			0745-0836
Depth of Water (ft)	38'5"			25'7"			43'6"
Time of Measurement (EST)	9:32	9:31	9:30	11:09	11:08	11:07	
Depth of Measurement (feet)	3.0	19.0	35.0	3.0	12.0	22.0	
Water Temperature (°C)	24.7	24.6	24.5	26.4	26.4	25.7	
pH (units)	8.11	8.11	8.11	7.78	7.72	7.64	
Salinity (ppt) (ALS)							27.5
Conductivity (mS/cm)	77.32	77.07	77.07	43.54	46.30	57.52	
Dissolved Oxygen (mg/L)	5.56	5.58	5.73	6.72	5.83	4.80	
Dissolved Oxygen (%)	92.4	91.5	94.1	97.1	89.3	70.4	
Turbidity (NTU)	3.27			3.33			
Latitude (WGS84)	32.65561			32.83638			32.72179
Longitude (WGS84)	-79.75546			-79.94416			-79.68634
Sampling Method	1 gal. deconned amber bottle (pre-cleaned at lab) held 1-meter below surface with boot hook.			Pneumatic pump			Modified Peterson
Sampling Depth (feet)	3 feet below surface of the water			23			surface
Field Description of Sample	Clear colorless			Yellowish in color			Medium to fine sand with trace amounts of shell hash. Upper layer light gray and lower layer dark gray.
Weather/Tidal Cycle	Partly cloudy with mid, incoming tide, 1-2 ft. seas, SE winds 5-10 knots			Sunny with mid, incoming tide, calm seas, NW winds at 5-10 knots			Partly cloudy with low, incoming tide, 1-2 ft. seas, winds 5-10 knots

¹ Tide heights at MLLW are verified data from NOAA Station ID 8665530 at Charleston, SC.

Source: ANAMAR Environmental Consulting, Inc.

TABLE 3
Results of Physical Analyses for Sediment Subsamples

Analyte	Subsample ID:	SYC14-AC-A	SYC14-AC-B	SYC14-AC-C	SYC14-AC-D	SYC14-AC-E	SYC14-AC-F
Sediment Description		SILT, inorganic-H, little fine-grained sand-sized quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, little fine-grained sand-sized quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, little fine-grained sand-sized, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SAND, silty, mostly fine-grained sand-sized quartz, some silt, (SM) Greenish Gray
% Gravel		0.3	0.0	0.0	1.8	0.0	0.1
% Coarse Sand		0.4	0.0	0.1	0.3	0.0	0.3
% Medium Sand		0.9	0.1	0.5	2.6	0.1	0.8
% Fine Sand		26.9	0.3	24.3	7.8	1.9	59.1
% Sand (total)		28.2	0.4	24.9	10.7	2.0	60.2
% Silt & Clay (combined)		71.5	99.6	75.1	87.5	98.0	39.7
% Solids		45.5	28.3	40.3	29.7	30.8	60.8
% Moisture (wet)		54.5	71.7	59.7	70.3	69.2	39.2
% Passing Sieve Size	Metric Equivalent (mm)						
0.75 inch	19.1	100.0	100.0	100.0	100.0	100.0	100.0
0.50 inch	12.7	100.0	100.0	100.0	99.2	100.0	100.0
0.375 inch	8.5	100.0	100.0	100.0	98.3	100.0	100.0
#4	4.75	99.7	100.0	100.0	98.2	100.0	99.9
#10	2.00	99.3	100.0	99.9	97.9	100.0	99.6
#20	0.85	99.0	100.0	99.8	97.4	100.0	99.4
#40	0.425	98.4	99.9	99.4	95.3	99.9	98.8
#60	0.250	97.2	99.9	98.3	93.5	99.7	96.5
#100	0.149	90.8	99.8	90.3	90.7	99.1	81.1
#200	0.075	71.5	99.6	75.1	87.5	98.0	39.7

Analyte	Subsample ID:	SYC14-TB-A	SYC14-TB-B	SYC14-TB-C	SYC14-TB-D	SYC14-TB-E	SYC14-TB-F
Sediment Description		SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray	SILT, inorganic-H, trace quartz, (MH) Dark Greenish Gray
% Gravel		0.0	0.0	0.0	0.0	0.0	0.0
% Coarse Sand		0.0	0.0	0.0	0.0	0.0	0.0
% Medium Sand		0.1	0.1	0.5	0.1	0.1	0.1
% Fine Sand		0.6	0.9	0.6	0.7	0.8	0.5
% Sand (total)		0.7	1.0	1.1	0.8	0.9	0.6
% Silt & Clay (combined)		99.3	99.0	98.9	99.2	99.1	99.4
% Solids		29.8	29.3	28.6	27.4	29.4	26.5
% Moisture (wet)		70.2	70.7	71.4	72.6	70.6	73.5
% Passing Sieve Size	Metric Equivalent (mm)						
0.75 inch	19.1	100.0	100.0	100.0	100.0	100.0	100.0
0.50 inch	12.7	100.0	100.0	100.0	100.0	100.0	100.0
0.375 inch	8.5	100.0	100.0	100.0	100.0	100.0	100.0
#4	4.75	100.0	100.0	100.0	100.0	100.0	100.0
#10	2.00	100.0	100.0	100.0	100.0	100.0	100.0
#20	0.85	100.0	100.0	99.8	99.9	100.0	100.0
#40	0.425	99.9	99.9	99.5	99.9	99.9	99.9
#60	0.250	99.9	99.7	99.3	99.9	99.9	99.9
#100	0.149	99.7	99.0	99.2	99.7	99.7	99.7
#200	0.075	99.3	99.0	98.9	99.2	99.1	99.4

See Appendix C for grain size distribution graphs and laboratory triplicate results.
Data qualifiers and acronyms are defined at the front of the tables section.

Source: AMEC
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 4
Results of Physical Analyses for Compositated Sediment Samples

Sample ID:	SYC14-AC	SYC14-TB	SYC14-TB1	SYC14-TB2	SYC14-REF
Analyte					
Sediment Description	CLAY, inorganic-H, little fine-grained sand-sized quartz, (CH) Dark Greenish Gray	CLAY, inorganic-H, trace quartz, (CH) Dark Greenish Gray	CLAY, inorganic-H, trace silt, (CH) Dark Greenish Gray	CLAY, inorganic-H, trace quartz, (CH) Dark Greenish Gray	SAND, silty, mostly fine-grained sand-sized quartz, little silt, (SM) Greenish Gray
% Gravel	0.0	0.0	0.0	0.0	0.0
% Coarse Sand	0.6	0.0	0.0	0.0	0.4
% Medium Sand	0.7	0.1	0.2	0.1	4.2
% Fine Sand	22.9	0.5	0.8	0.9	75.2
% Sand (total)	24.2	0.6	1.0	1.0	79.8
% Silt	32.2		37.2	37.3	17.2
% Clay	43.6		61.8	61.7	3.0
% Silt & Clay (combined)	75.8	99.4	99.0	99.0	20.2
% Solids	39.9	28.3	28.3	28.4	80.6
% Moisture (wet)	60.1	71.7	71.7	71.6	19.4
USCS Classification	CH	CH	CH	CH	SM
Specific Gravity	2.680		2.504	2.592	2.728
Atterberg Limits	PL		58	53	NP
	LL		212	209	NP
	PI		154	156	NP
% Passing Sieve Size					
0.75 inch	100.0	100.0	100.0	100.0	100.0
0.50 inch	100.0	100.0	100.0	100.0	100.0
0.375 inch	100.0	100.0	100.0	100.0	100.0
#4	100.0	100.0	100.0	100.0	100.0
#10	99.4	100.0	100.0	100.0	99.6
#20	99.1	100.0	99.9	100.0	98.1
#40	98.7	99.9	99.8	99.9	95.4
#60	97.7	99.9	99.8	99.7	89.0
#100	91.9	99.7	99.6	99.6	32.3
#200	75.8	99.4	99.0	99.0	20.2
Hydrometer Readings (% less than the following sizes)	65.7 @ 0.0474 mm		97.2 @ 0.0495 mm	97.8 @ 0.0485 mm	4.9 @ 0.0507 mm
	63.8 @ 0.0336 mm		94.2 @ 0.0351 mm	94.6 @ 0.0344 mm	3.9 @ 0.0360 mm
	63.8 @ 0.0212 mm		94.2 @ 0.0222 mm	88.0 @ 0.0219 mm	3.0 @ 0.0228 mm
	58 @ 0.0124 mm		79.0 @ 0.0130 mm	81.5 @ 0.0127 mm	3.0 @ 0.0132 mm
	54.1 @ 0.0088 mm		76.0 @ 0.0092 mm	75.0 @ 0.0091 mm	3.0 @ 0.0093 mm
	48.3 @ 0.0063 mm		69.9 @ 0.0066 mm	68.5 @ 0.0064 mm	3.0 @ 0.0066 mm
	34.8 @ 0.0030 mm		48.6 @ 0.0032 mm	48.9 @ 0.0031 mm	3.0 @ 0.0031 mm
65.7 @ 0.0474 mm		42.5 @ 0.0014 mm	45.6 @ 0.0013 mm	2.0 @ 0.0013 mm	

See Appendix C for grain size distribution graphs and laboratory triplicate results. Data qualifiers and acronyms are defined at the front of the tables section.

Source: AMEC
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 5

Analytical Results for Ammonia, TPHs, TOC, and Organotins in Sediment Samples

Analyte	Sample ID:			SYC14-AC				SYC14-TB				SYC14-REF			
	Maximum Detected Conc. mg/kg	TEL mg/kg	ERL mg/kg	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
Ammonia (as nitrogen)	763	x	x	300	--	3	30	763	--	4	44	4.63	--	0.06	0.63
Petroleum Hydrocarbons, Total	720	x	x	250	J	200	250	720	--	290	350	<130	U	110	130
Analyte	Maximum Detected Conc. %	TEL %	ERL %	Result %	Qualifier	MDL	MRL	Result %	Qualifier	MDL	MRL	Result %	Qualifier	MDL	MRL
Carbon, Total Organic	3.34	x	x	2.33	--	0.020	0.050	3.34	--	0.020	0.050	0.084	--	0.020	0.050
Analyte	Maximum Detected Conc. µg/kg	TEL µg/kg	ERL µg/kg	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
n-Butyltin Cation	6.1	x	x	<2.5	Ui	1.8	2.5	6.1	--	0.92	3.6	<1.3	U	0.33	1.3
Di-n-butyltin Cation	3.7	x	x	0.99	J	0.47	2.5	3.7	--	0.68	3.6	<1.3	U	0.24	1.3
Tri-n-butyltin Cation	4.1	x	x	<2.6	Ui	2.6	2.6	4.1	--	1.6	3.6	<1.3	U	0.55	1.3
Total Organotins (as tin)	7.7	x	x	2.8				7.7				0.57			

For calculating the Total Organotins, U-qualified results use the MDL and J-qualified results use the value reported by the laboratory.

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 6
Analytical Results for Dry Weight PAHs in Sediment Samples

Analyte	Sample ID:				SYC14-AC				SYC14-TB				SYC14-REF			
	Maximum Detected Conc. µg/kg	TEL µg/kg	ERL µg/kg	ERM µg/kg	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
1-Methylnaphthalene ^{LMW}	3.1	x	x	x	3.1	J	0.64	6.2	2.3	J	0.90	8.8	<3.2	U	0.51	3.2
2-Methylnaphthalene ^{LMW}	5.2	20.2	70	670	5.2	J	0.49	6.2	3.7	J	0.69	8.8	<3.2	U	0.39	3.2
Acenaphthene ^{LMW}	9.1	6.71	16	500	9.1	--	0.94	6.2	2.7	J	1.4	8.8	<3.2	U	0.76	3.2
Acenaphthylene	24	5.87	44	640	22	--	0.73	6.2	24	--	1.1	8.8	<3.2	U	0.59	3.2
Anthracene ^{LMW}	41	46.9	85.3	1100	34	--	0.72	6.2	41	--	1.1	8.8	<3.2	U	0.58	3.2
Benzo(a)anthracene ^{HMW}	170	74.8	261	1600	170	--	0.89	6.2	81	--	1.3	8.8	<3.2	U	0.72	3.2
Benzo(a)pyrene ^{HMW}	130	88.8	430	1600	130	--	0.94	6.2	96	--	1.4	8.8	<3.2	U	0.76	3.2
Benzo(b)fluoranthene	210	x	x	x	210	--	1.2	6.2	150	--	1.7	8.8	<3.2	U	0.92	3.2
Benzo(g,h,i)perylene	62	x	x	x	62	--	1.1	6.2	57	--	1.5	8.8	1.1	J	0.85	3.2
Benzo(k)fluoranthene	75	x	x	x	75	--	1.1	6.2	56	--	1.6	8.8	<3.2	U	0.87	3.2
Chrysene ^{HMW}	130	108	384	2800	130	--	0.99	6.2	110	--	1.5	8.8	<3.2	U	0.80	3.2
Dibenzo(a,h)anthracene ^{HMW}	16	6.22	63.4	260	16	--	0.99	6.2	15	--	1.5	8.8	<3.2	U	0.80	3.2
Fluoranthene ^{HMW}	310	113	600	5100	310	--	1.3	6.2	130	--	1.8	8.8	<3.2	U	0.98	3.2
Fluorene ^{LMW}	8.3	21.2	19	540	8.3	--	0.76	6.2	6.8	J	1.1	8.8	<3.2	U	0.61	3.2
Indeno(1,2,3-cd)pyrene	72	x	x	x	72	--	1.1	6.2	61	--	1.6	8.8	<3.2	U	0.87	3.2
Naphthalene ^{LMW}	13	34.6	160	2100	13	--	0.75	6.2	5.6	J	1.1	8.8	1.6	J	0.60	3.2
Phenanthrene ^{LMW}	23	86.7	240	1500	23	--	1.8	6.2	16	--	2.5	8.8	<3.2	U	1.4	3.2
Pyrene ^{HMW}	310	153	665	2600	310	--	0.94	6.2	140	--	1.4	8.8	<3.2	U	0.76	3.2
Total LMW PAHs	96	312	552	3160	96				78				5.9			
Total HMW PAHs	1066	655	1700	9600	1066				572				4.8			
Total PAHs	1603	1684	4022	44792	1603				998				15			

Bolded values indicate result is greater than or equal to the TEL and/or ERL.

^{LMW} Low Molecular Weight PAHs (NOAA 1989)

^{HMW} High Molecular Weight PAHs (NOAA 1989)

For calculating Total PAHs, U-qualified results use the MDL and J-qualified results use the value reported by the laboratory.

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 7
Analytical Results for Dry Weight Dioxins and Furans in Sediment Samples

Analyte	Sample ID:				SYC14-AC					SYC14-TB					SYC14-REF				
	Maximum Detected Conc. ng/kg	TEL ng/kg	AET ng/kg	TEF ng/kg	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ
2,3,7,8-TCDD	ND	x	x	1	<1.22	U	0.814	1.22	0.814	<1.74	U	0.702	1.74	0.702	<0.631	U	0.381	0.631	0.381
1,2,3,7,8-PeCDD	1.99	x	x	1	0.866	J	0.406	6.10	0.866	1.99	JK	0.660	8.71	1.99	<3.16	U	0.285	3.16	0.285
1,2,3,6,7,8-HxCDD	10.0	x	x	0.1	3.31	J	0.673	6.10	0.331	10.0	--	1.04	8.71	1.00	<3.16	U	0.235	3.16	0.0235
1,2,3,4,7,8-HxCDD	4.83	x	x	0.1	1.38	J	0.699	6.10	0.138	4.83	J	1.01	8.71	0.483	<3.16	U	0.220	3.16	0.022
1,2,3,7,8,9-HxCDD	14.3	x	x	0.1	4.34	J	0.630	6.10	0.434	14.3	--	0.940	8.71	1.43	<3.16	U	0.209	3.16	0.0209
1,2,3,4,6,7,8-HpCDD	403	x	x	0.01	98.1	--	1.44	6.10	0.981	403	--	0.586	8.71	4.03	1.09	BJ	0.260	3.16	0.011
OCDD	5150	x	x	0.0003	1350	--	0.949	12.2	0.405	5150	--	1.13	17.4	1.55	11.8	--	0.484	6.31	0.0035
2,3,7,8-TCDF	1.10	x	x	0.1	<1.22	U	0.448	1.22	0.0448	1.10	JK	0.540	1.74	0.110	<0.631	U	0.265	0.631	0.0265
1,2,3,7,8-PeCDF	0.931	x	x	0.03	<6.10	U	0.344	6.10	0.01032	0.931	J	0.640	8.71	0.028	<3.16	U	0.230	3.16	0.0069
2,3,4,7,8-PeCDF	1.01	x	x	0.3	<6.10	U	0.346	6.10	0.1038	1.01	J	0.616	8.71	0.303	<3.16	U	0.228	3.16	0.0684
1,2,3,6,7,8-HxCDF	1.55	x	x	0.1	0.450	J	0.352	6.10	0.045	1.55	JK	0.490	8.71	0.155	<3.16	U	0.158	3.16	0.0158
1,2,3,7,8,9-HxCDF	ND	x	x	0.1	<6.10	U	0.430	6.10	0.043	<8.71	U	0.588	8.71	0.0588	<3.16	U	0.192	3.16	0.0192
1,2,3,4,7,8-HxCDF	1.47	x	x	0.1	0.521	JK	0.406	6.10	0.052	1.47	J	0.588	8.71	0.147	<3.16	U	0.186	3.16	0.0186
2,3,4,6,7,8-HxCDF	2.10	x	x	0.1	0.434	J	0.391	6.10	0.043	2.10	JK	0.495	8.71	0.210	<3.16	U	0.164	3.16	0.0164
1,2,3,4,6,7,8-HpCDF	20.3	x	x	0.01	7.42	--	0.454	6.10	0.074	20.3	P	1.04	8.71	0.203	<3.16	U	0.190	3.16	0.0019
1,2,3,4,7,8,9-HpCDF	2.49	x	x	0.01	0.704	JK	0.594	6.10	0.007	2.49	JK	1.30	8.71	0.025	<3.16	U	0.244	3.16	0.00244
OCDF	77.3	x	x	0.0003	24.3	--	0.870	12.2	0.007	77.3	--	1.08	17.4	0.023	<6.31	U	0.510	6.31	0.000153
Total TEQs¹	12.4	0.85	3.6	x					4.40					12.4					0.923
TCDD, Total	34.4	x	x	x	9.03	--	0.814	1.22		34.4	--	0.702	1.74		<0.631	U	0.381	0.631	
PeCDD, Total	24.6	x	x	x	15.0	--	0.406	6.10		24.6	--	0.660	8.71		<3.16	U	0.285	3.16	
HxCDD, Total	480	x	x	x	144	--	0.665	6.10		480	--	0.994	8.71		0.406	J	0.221	3.16	
HpCDD, Total	2050	x	x	x	506	--	1.44	6.10		2050	--	0.586	8.71		3.81	--	0.260	3.16	
TCDF, Total	ND	x	x	x	<1.22	U	0.448	1.22		<1.74	U	0.540	1.74		<0.631	U	0.265	0.631	
PeCDF, Total	8.65	x	x	x	2.39	J	0.386	6.10		8.65	J	0.498	8.71		<3.16	U	0.210	3.16	
HxCDF, Total	12.6	x	x	x	7.44	--	0.392	6.10		12.6	--	0.536	8.71		<3.16	U	0.173	3.16	
HpCDF, Total	68.0	x	x	x	22.9	--	0.519	6.10		68.0	--	1.16	8.71		<3.16	U	0.215	3.16	

¹ Toxic equivalency quotient (TEQ) values were calculated using the MDL for U-qualified (non-detected) results.

Bolded values exceed the TEL and the AET.

Data qualifiers and acronyms are defined at the front of the tables section.

Sources: Results from ALS Environmental; TEL and AET values from Buchman (2008); TEF values from Van den Berg et al. (2006)

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 8
Analytical Results for Dry Weight PBDEs in Sediment Samples

Analyte	SAMPLE ID:			SYC14-AC				SYC14-TB				SYC14-REF			
	Max Conc. µg/kg	TEL µg/kg	ERL µg/kg	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
PBDE 17	ND	x	x	<0.13	U	0.028	0.13	<0.18	U	0.041	0.18	<0.064	U	0.023	0.064
PBDE 28	ND	x	x	<0.13	U	0.030	0.13	<0.18	U	0.043	0.18	<0.064	U	0.024	0.064
PBDE 47	ND	x	x	<0.13	U	0.036	0.13	<0.18	U	0.051	0.18	<0.064	U	0.029	0.064
PBDE 66	ND	x	x	<0.13	U	0.024	0.13	<0.18	U	0.034	0.18	<0.064	U	0.019	0.064
PBDE 71	ND	x	x	<0.13	U	0.019	0.13	<0.18	U	0.027	0.18	<0.064	U	0.015	0.064
PBDE 85	ND	x	x	<0.13	U	0.049	0.13	<0.18	U	0.071	0.18	<0.080	U	0.040	0.080
PBDE 99	ND	x	x	<0.13	U	0.037	0.13	<0.18	U	0.053	0.18	<0.064	U	0.030	0.064
PBDE 100	ND	x	x	<0.13	U	0.017	0.13	<0.18	U	0.025	0.18	<0.064	U	0.014	0.064
PBDE 128	ND	x	x	<0.13	U	0.013	0.13	<0.18	U	0.018	0.18	<0.064	U	0.0099	0.064
PBDE 138	ND	x	x	<0.13	U	0.020	0.13	<0.18	U	0.029	0.18	<0.064	U	0.016	0.064
PBDE 153	ND	x	x	<0.13	U	0.011	0.13	<0.18	U	0.016	0.18	<0.064	U	0.0087	0.064
PBDE 154	ND	x	x	<0.13	U	0.0095	0.13	<0.18	U	0.014	0.18	<0.064	U	0.0078	0.064
PBDE 183	ND	x	x	<0.13	U	0.016	0.13	<0.18	U	0.023	0.18	<0.064	U	0.013	0.064
PBDE 190	ND	x	x	<0.13	U	0.025	0.13	<0.18	U	0.036	0.18	<0.064	U	0.020	0.064
PBDE 203	ND	x	x	<0.13	U	0.036	0.13	<0.18	U	0.051	0.18	<0.064	U	0.029	0.064
PBDE 206	ND	x	x	<1.3	U	0.038	1.3	<1.8	U	0.055	1.8	<0.64	U	0.031	0.64
PBDE 209	ND	x	x	<1.3	U	0.032	1.3	<1.8	U	0.046	1.8	<0.64	U	0.026	0.64

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 9
Analytical Results for Metals in Site Water and Elutriates Generated from Sediment

Sample ID:			SYC14-AC				SYC14-TB1				SYC14-TB2				SYC14-SW				SYC14-ODMDS-SW			
Analyte	Maximum Conc. µg/L	CMC µg/L	Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL
Antimony	1.97	x	1.45	--	0.100	1.00	1.97	--	0.100	1.00	1.44	--	0.100	1.00	0.516	J	0.100	1.00	0.756	J	0.100	1.00
Arsenic	30.2	69	18.9	--	0.03	0.50	30.2	--	0.03	0.50	24.8	--	0.03	0.50	1.60	--	0.03	0.50	0.98	--	0.03	0.50
Beryllium	0.01	x	0.006	J	0.001	0.020	0.008	J	0.001	0.020	0.009	J	0.001	0.020	0.010	J	0.001	0.020	0.001	J	0.001	0.020
Cadmium	0.019	40	0.010	J	0.001	0.020	0.009	J	0.001	0.020	0.008	J	0.001	0.020	0.019	J	0.001	0.020	0.012	J	0.001	0.020
Chromium	0.43	1100	0.30	--	0.02	0.20	0.41	--	0.02	0.20	0.43	--	0.02	0.20	0.37	--	0.02	0.20	0.16	J	0.02	0.20
Copper	0.844	4.8	0.243	--	0.003	0.100	0.258	--	0.003	0.100	0.298	--	0.003	0.100	0.844	--	0.003	0.100	0.194	--	0.003	0.100
Lead	0.25	210	0.25	--	0.01	0.02	0.09	--	0.01	0.02	0.10	--	0.01	0.02	0.16	--	0.01	0.02	0.01	J	0.01	0.02
Mercury	ND	1.8	ND	U	0.02	0.20	ND	U	0.02	0.20	ND	U	0.02	0.20	ND	U	0.02	0.20	ND	U	0.02	0.20
Nickel	0.52	74	0.35	--	0.04	0.20	0.41	--	0.04	0.20	0.41	--	0.04	0.20	0.52	--	0.04	0.20	0.20	--	0.04	0.20
Selenium	0.27	290	ND	U	0.20	1.00	0.27	J	0.20	1.00	0.26	J	0.20	1.00	ND	U	0.20	1.00	0.26	J	0.20	1.00
Silver	0.003	1.9	0.003	J	0.002	0.020	0.002	J	0.002	0.020	ND	U	0.002	0.020	ND	U	0.002	0.020	ND	U	0.002	0.020
Thallium	0.014	x	ND	U	0.004	0.020	ND	U	0.004	0.020	ND	U	0.004	0.020	0.014	J	0.004	0.020	0.012	J	0.004	0.020
Zinc	1.1	90	0.7	--	0.1	0.5	0.6	--	0.1	0.5	0.7	--	0.1	0.5	1.1	--	0.1	0.5	0.2	J	0.1	0.5
Analyte	Maximum Conc. mg/L	CMC mg/L	Result mg/L	Qualifier	MDL	MRL	Result mg/L	Qualifier	MDL	MRL	Result mg/L	Qualifier	MDL	MRL	Result mg/L	Qualifier	MDL	MRL	Result mg/L	Qualifier	MDL	MRL
Ammonium	44.8	x	28.6	--	0.20	0.50	44.8	--	1.0	2.5	43.1	--	1.0	2.5	0.114	--	0.020	0.050	ND	U	0.020	0.050

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 10
Analytical Results for Pesticides in Site Water and Elutriates Generated from Sediment

Sample ID:	SYC14-AC		SYC14-TB1		SYC14-TB2		SYC14-SW		SYC14-ODMDS-SW	
	Maximum Detected Conc. µg/L	CMC µg/L	Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL
Analyte			Result µg/L	Qualifier	MDL	MRL	Result µg/L	Qualifier	MDL	MRL
Aldrin	ND	1.3	ND	U	0.00042	0.011	ND	U	0.00042	0.011
Chlordane & Derivatives										
Chlordane (technical)	ND	0.09	ND	U	0.023	0.21	ND	U	0.023	0.21
α (cis)-Chlordane	ND	x	ND	U	0.0042	0.011	ND	U	0.0041	0.011
γ (trans)-Chlordane	0.00037	x	ND	U	0.00033	0.011	ND	U	0.00033	0.011
cis-Nonachlor	ND	x	ND	U	0.0011	0.011	ND	U	0.0011	0.011
Oxychlordane	ND	x	ND	U	0.00062	0.011	ND	U	0.00062	0.011
trans-Nonachlor	ND	x	ND	U	0.00095	0.011	ND	U	0.00094	0.011
DDT & Derivatives										
o,p' (2,4')-DDD	ND	x	ND	U	0.00059	0.011	ND	U	0.00059	0.011
p,p' (4,4')-DDD	ND	x	ND	U	0.0016	0.011	ND	U	0.0016	0.011
o,p' (2,4')-DDE	ND	x	ND	U	0.00052	0.011	ND	U	0.00052	0.011
p,p' (4,4')-DDE	0.0017	x	0.0017	J	0.00038	0.011	ND	U	0.00037	0.011
o,p' (2,4')-DDT	ND	x	ND	Ui	0.0011	0.011	ND	U	0.00061	0.011
p,p' (4,4')-DDT	ND	0.13	ND	U	0.00060	0.011	ND	U	0.00060	0.011
Dieldrin	ND	0.71	ND	U	0.00037	0.011	ND	U	0.00036	0.011
Endosulfan & Derivatives										
Endosulfan I	ND	0.034	ND	U	0.00046	0.011	ND	U	0.00045	0.011
Endosulfan II	0.00079	0.034	ND	U	0.00042	0.011	ND	Ui	0.00054	0.011
Endrin & Derivatives										
Endrin	ND	0.037	ND	U	0.00071	0.011	ND	U	0.00070	0.011
Endrin Aldehyde	0.00048	x	ND	U	0.00048	0.011	0.00048	JP	0.00047	0.011
Endrin Ketone	ND	x	ND	U	0.00069	0.011	ND	U	0.00068	0.011
Heptachlor & Derivatives										
Heptachlor	ND	0.053	ND	Ui	0.00083	0.011	ND	Ui	0.00083	0.011
Heptachlor Epoxide	ND	0.053	ND	U	0.00033	0.011	ND	U	0.00033	0.011
Hexachlorocyclohexane (BHC)										
α-BHC	ND	x	ND	U	0.00035	0.011	ND	U	0.00034	0.011
β-BHC	ND	x	ND	U	0.00086	0.011	ND	U	0.00085	0.011
γ-BHC (Lindane)	ND	0.16	ND	U	0.00059	0.011	ND	U	0.00059	0.011
δ-BHC	ND	x	ND	U	0.00046	0.011	ND	U	0.00045	0.011
Methoxychlor	ND	x	ND	U	0.00096	0.011	ND	U	0.00095	0.011
Mirex®	ND	x	ND	U	0.00084	0.011	ND	U	0.00083	0.011
Toxaphene	ND	0.21	ND	Ui	0.079	0.52	ND	Ui	0.053	0.52

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 11
Summary of Survival Data for *Americamysis bahia* (Water Column Phase)

Sample ID	Concentration (%)	Overlying Total Ammonia (mg/L)		Mean Survival (%)	Std. Dev.	Statistically Less Than Control* (yes/no)	LC ₅₀ (%)
		Day 0	Day 4				
Control*		0.00	0.00	96	9		
SYC14-SW		0.00	0.00	94	6	No	
SYC14-AC	10	0.45	1.25	94	6	--	62.4
	50	3.42	5.27	84	11	--	
	100	8.03	12.1	2	5	Yes	
SYC14-TB1	10	0.36	2.10	94	6	--	52.0
	50	4.23	8.68	70	16	--	
	100	13.3	NA	0	0	Yes	
SYC14-TB2	10	0.88	1.92	90	17	--	41.4
	50	4.74	7.08	66	18	--	
	100	11.3	NA	0	0	Yes	
SYC14-AC-AR	10	0.01	0.10	96	6	--	>100
	50	0.00	0.06	94	0	--	
	100	0.00	0.20	94	9	No	
SYC14-TB1-AR	10	0.00	0.02	92	13	--	>100
	50	0.00	0.23	92	8	--	
	100	0.00	0.39	88	8	No	
SYC14-TB2-AR	10	0.00	0.05	92	8	--	>100
	50	0.00	0.38	98	5	--	
	100	0.03	0.71	98	5	No	

* Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 12
Survival Data for *Americamysis bahia* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms		% Survival	Mean Survival (%)
			Initial	Final		
Control*	1	0	10	10	100	96
	2		10	8	80	
	3		10	10	100	
	4		10	10	100	
	5		10	10	100	
Site Water	1	0	10	9	90	94
	2		10	10	100	
	3		10	10	100	
	4		10	9	90	
	5		10	9	90	
SYC14-TB1	1	10	10	10	100	94
	2		10	9	90	
	3		10	10	100	
	4		10	9	90	
	5		10	9	90	
	1	50	10	5	50	70
	2		10	8	80	
	3		10	6	60	
	4		10	7	70	
	5		10	9	90	
	1	100	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	
SYC14-TB2	1	10	10	10	100	90
	2		10	10	100	
	3		10	10	100	
	4		10	6	60	
	5		10	9	90	
	1	50	10	6	60	66
	2		10	5	50	
	3		10	8	80	
	4		10	9	90	
	5		10	5	50	
	1	100	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	

TABLE 12 (continued)

Survival Data for *Americamysis bahia* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms		% Survival	Mean Survival (%)
			Initial	Final		
SYC14-AC	1	10	10	9	90	94
	2		10	10	100	
	3		10	10	100	
	4		10	9	90	
	5		10	9	90	
	1	50	10	9	90	84
	2		10	8	80	
	3		10	8	80	
	4		10	10	100	
	5		10	7	70	
	1	100	10	0	0	2
	2		10	0	0	
	3		10	1	10	
	4		10	0	0	
	5		10	0	0	
SYC14-TB1-AR	1	10	10	7	70	92
	2		10	10	100	
	3		10	10	100	
	4		10	9	90	
	5		10	10	100	
	1	50	10	9	90	92
	2		10	10	100	
	3		10	10	100	
	4		10	8	80	
	5		10	9	90	
	1	100	10	9	90	88
	2		10	9	90	
	3		10	8	80	
	4		10	10	100	
	5		10	8	80	

TABLE 12 (continued)

 Survival Data for *Americamysis bahia* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms		% Survival	Mean Survival (%)
			Initial	Final		
SYC14-TB2-AR	1	10	10	10	100	92
	2		10	9	90	
	3		10	9	90	
	4		10	8	80	
	5		10	10	100	
	1	50	10	10	100	98
	2		10	10	100	
	3		10	9	90	
	4		10	10	100	
	5		10	10	100	
	1	100	10	10	100	98
	2		10	10	100	
	3		10	10	100	
	4		10	9	90	
	5		10	10	100	
SYC14-AC-AR	1	10	10	10	100	96
	2		10	9	90	
	3		10	10	100	
	4		10	9	90	
	5		10	10	100	
	1	50	10	10	100	94
	2		10	10	100	
	3		10	9	90	
	4		10	10	100	
	5		10	8	80	
	1	100	10	8	80	94
	2		10	10	100	
	3		10	10	100	
	4		10	10	100	
	5		10	9	90	

* Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 13

Summary of Survival Data for *Menidia beryllina* (Water Column Phase)

Sample ID	Concentration (%)	Overlying Total Ammonia (mg/L)		Mean Survival (%)	Std. Dev.	Statistically Less Than Control* (yes/no)	LC ₅₀ (%)
		Day 0	Day 4				
Control*		0.00	0.22	90	12.2		
SYC14-SW		0.00	0.21	92	13.0	No	
SYC14-AC	10	0.45	1.85	90	12.2	No	28.2
	50	3.42	8.57	18	17.9	Yes	
	100	8.03	NA	0	0.0	Yes	
SYC14-TB1	10	0.36	1.60	94	5.5	No	22.4
	50	4.23	NA	0	0.0	Yes	
	100	13.30	NA	0	0.0	Yes	
SYC14-TB2	10	0.88	2.88	84	15.2	No	21.1
	50	4.74	NA	0	0.0	Yes	
	100	11.30	NA	0	0.0	Yes	
SYC14-AC-AR	10	0.01	0.26	98	4.5	No	>100
	50	0.00	0.34	94	13.4	No	
	100	0.00	0.65	94	13.4	No	
SYC14-TB1-AR	10	0.00	0.29	90	12.2	No	>100
	50	0.00	0.64	98	4.5	No	
	100	0.00	0.81	90	14.1	No	
SYC14-TB2-AR	10	0.00	0.29	94	8.9	No	>100
	50	0.00	0.46	88	11.0	No	
	100	0.03	1.31	96	5.5	No	

* Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Bold = Value exceeds respective concurrent reference-toxicant test derived NOEC of 12.9 mg/L total ammonia.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 14
Survival Data for *Menidia beryllina* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms		% Survival	Mean Survival (%)
			Initial	Final		
Control*	1	0	10	9	90	90
	2		10	10	100	
	3		10	10	100	
	4		10	7	70	
	5		10	9	90	
Site Water	1	0	10	7	70	92
	2		10	10	100	
	3		10	9	90	
	4		10	10	100	
	5		10	10	100	
SYC14-TB1	1	10	10	9	90	94
	2		10	10	100	
	3		10	10	100	
	4		10	9	90	
	5		10	9	90	
	1	50	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	
	1	100	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	
SYC14-TB2-AR	1	10	10	7	70	84
	2		10	10	100	
	3		10	8	80	
	4		10	10	100	
	5		10	7	70	
	1	50	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	
	1	100	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	
SYC14-AC	1	10	10	7	70	90
	2		10	10	100	
	3		10	9	90	
	4		10	9	90	
	5		10	10	100	
	1	50	10	3	30	18
	2		10	0	0	
	3		10	2	20	
	4		10	4	40	
	5		10	0	0	
	1	100	10	0	0	0
	2		10	0	0	
	3		10	0	0	
	4		10	0	0	
	5		10	0	0	

TABLE 14 (continued)
Survival Data for *Menidia beryllina* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms		% Survival	Mean Survival (%)
			Initial	Final		
SYC14-TB1-AR	1	10	10	10	100	90
	2		10	10	100	
	3		10	9	90	
	4		10	9	90	
	5		10	7	70	
	1	50	10	10	100	98
	2		10	10	100	
	3		10	9	90	
	4		10	10	100	
	5		10	10	100	
	1	100	10	10	100	90
	2		10	10	100	
	3		10	8	80	
	4		10	10	100	
	5		10	7	70	
SYC14-TB2-AR	1	10	10	10	100	94
	2		10	8	80	
	3		10	10	100	
	4		10	9	90	
	5		10	10	100	
	1	50	10	7	70	88
	2		10	9	90	
	3		10	9	90	
	4		10	10	100	
	5		10	9	90	
	1	100	10	10	100	96
	2		10	10	100	
	3		10	9	90	
	4		10	9	90	
	5		10	10	100	
SYC14-AC-AR	1	10	10	10	100	98
	2		10	9	90	
	3		10	10	100	
	4		10	10	100	
	5		10	10	100	
	1	50	10	10	100	94
	2		10	10	100	
	3		10	10	100	
	4		10	10	100	
	5		10	7	70	
	1	100	10	10	100	94
	2		10	10	100	
	3		10	10	100	
	4		10	7	70	
	5		10	10	100	

* Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 15

Summary of Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Concentration (%)	Overlying Total Ammonia (mg/L)		Mean Normal Survivorship (%) ^{1,3}	Std. Dev.	Statistically Less Than Control* (yes/no)	EC ₅₀ ³ (%)
		Day 0	Day 2				
Control ²		0.000	0.000	82.5	5.1		
SYC14-SW		0.000	0.000	81.3	4.9	No	
SYC14-AC	1	0.000	0.000	78.5	8.2	--	15.5
	10	0.172	0.000	79.5	7.4	--	
	25	1.27	0.482	0.0	0.0	--	
	50	3.85	1.79	0.0	0.0	--	
	100	7.92	5.01	0.0	0.0	Yes	
SYC14-TB1	1	0.000	0.000	85.5	8.4	--	14.8
	10	0.637	0.232	80.6	4.8	--	
	25	2.65	1.76	0.0	0.0	--	
	50	5.89	4.52	0.0	0.0	--	
	100	12.6	10.4	0.0	0.0	Yes	
SYC14-TB2	1	0.000	0.000	85.4	6.4	--	14.0
	10	0.647	0.261	77.4	5.1	--	
	25	2.11	2.13	0.0	0.0	--	
	50	5.37	3.71	0.0	0.0	--	
	100	12.5	8.17	0.0	0.0	Yes	

TABLE 15 (continued)
 Summary of Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Concentration (%)	Overlying Total Ammonia (mg/L)		Mean Normal Survivorship (%) ^{1,3}	Std. Dev.	Statistically Less Than Control* (yes/no)	EC ₅₀ ³ (%)
		Day 0	Day 2				
SYC14-AC-AR	1	0.000	0.000	80.2	5.7	--	>100
	10	0.000	0.000	75.9	4.5	--	
	25	0.000	0.000	77.6	4.7	--	
	50	0.000	0.000	80.1	4.7	--	
	100	0.000	0.000	78.1	9.5	No	
SYC14-TB1-AR	1	0.000	0.000	82.0	5.7	--	>100
	10	0.000	0.000	86.9	5.2	--	
	25	0.000	0.000	82.9	5.5	--	
	50	0.000	0.000	89.1	6.1	--	
	100	0.000	0.072	76.1	7.6	No	
SYC14-TB2-AR	1	0.000	0.000	87.9	7.5	--	>100
	10	0.000	0.000	84.3	9.6	--	
	25	0.000	0.000	78.5	8.1	--	
	50	0.000	0.000	77.8	7.5	--	
	100	0.000	0.061	77.6	2.8	No	

¹ Calculated as the number of developed embryos divided by the number of embryos stocked (stocking density).

² Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

³ EC₅₀ values are derived from Comprehensive Environmental Toxicity Information System (CETIS) statistical software output.

Bold = Value exceeds respective concurrent reference-toxicant test derived NOEC of 0.491 mg/L total ammonia.

Source: ENVIRON Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 16

Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms Normal	# of Organisms Abnormal	Combined Proportion Normal ¹ (%)	Mean % Combined Proportion Normal
Control ¹	1	0	235	5	97.9	96.0
	2		218	10	95.6	
	3		217	6	97.3	
	4		199	10	95.2	
	5		228	15	93.8	
Site Water	1	0	211	7	96.8	96.2
	2		198	10	95.2	
	3		225	5	97.8	
	4		215	7	96.8	
	5		232	14	94.3	
SYC14-TB1	1	1	196	3	98.5	96.4
	2		461	25	94.9	
	3		259	8	97.0	
	4		229	13	94.6	
	5		223	7	97.0	
	1	10	230	17	93.1	92.5
	2		223	15	93.7	
	3		215	18	92.3	
	4		205	16	92.8	
	5		199	20	90.9	
	1	25	0	194	0.0	0.0
	2		0	202	0.0	
	3		0	214	0.0	
	4		0	189	0.0	
	5		0	191	0.0	
	1	50	0	133	0.0	0.0
	2		0	214	0.0	
	3		0	171	0.0	
	4		0	171	0.0	
	5		0	195	0.0	
1	100	0	6	0.0	0.0	
2		0	0	0.0		
3		0	6	0.0		
4		0	3	0.0		
5		0	6	0.0		

TABLE 16 (continued)
Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms Normal	# of Organisms Abnormal	Combined Proportion Normal ¹ (%)	Mean % Combined Proportion Normal
SYC14-TB2	1	1	226	11	95.4	95.4
	2		245	9	96.5	
	3		244	13	94.9	
	4		212	13	94.2	
	5		209	9	95.9	
	1	10	226	31	87.9	88.8
	2		211	17	92.5	
	3		196	39	83.4	
	4		206	27	88.4	
	5		191	17	91.8	
	1	25	0	167	0.0	0.0
	2		0	183	0.0	
	3		0	207	0.0	
	4		0	182	0.0	
	5		0	211	0.0	
	1	50	0	181	0.0	0.0
	2		0	191	0.0	
	3		0	174	0.0	
	4		0	179	0.0	
	5		0	175	0.0	
1	100	0	4	0.0	0.0	
2		0	4	0.0		
3		0	5	0.0		
4		0	24	0.0		
5		0	11	0.0		
SYC14-AC	1	1	233	9	96.3	96.2
	2		212	7	96.8	
	3		187	6	96.9	
	4		226	14	94.2	
	5		186	6	96.9	
	1	10	179	9	95.2	96.1
	2		218	11	95.2	
	3		218	5	97.8	
	4		210	8	96.3	
	5		232	10	95.9	
	1	25	0	214	0.0	0.0
	2		0	219	0.0	
	3		0	190	0.0	
	4		0	187	0.0	
	5		0	197	0.0	
	1	50	0	204	0.0	0.0
	2		0	198	0.0	
	3		0	185	0.0	
	4		0	182	0.0	
	5		0	203	0.0	
1	100	0	104	0.0	0.0	
2		0	131	0.0		
3		0	53	0.0		
4		0	55	0.0		
5		0	118	0.0		

TABLE 16 (continued)
Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms Normal	# of Organisms Abnormal	Combined Proportion Normal ¹ (%)	Mean % Combined Proportion Normal
SYC14-TB1-AR	1	1	204	7	96.7	95.5
	2		206	13	94.1	
	3		216	10	95.6	
	4		224	10	95.7	
	5		241	11	95.6	
	1	10	247	9	96.5	96.2
	2		224	4	98.2	
	3		232	14	94.3	
	4		241	12	95.3	
	5		212	7	96.8	
	1	25	208	8	96.3	96.8
	2		209	8	96.3	
	3		241	10	96.0	
	4		214	5	97.7	
	5		230	5	97.9	
	1	50	242	8	96.8	96.8
	2		223	7	97.0	
	3		252	12	95.5	
	4		251	7	97.3	
	5		217	6	97.3	
1	100	233	3	98.7	96.3	
2		208	9	95.9		
3		190	9	95.5		
4		180	5	97.3		
5		201	12	94.4		
SYC14-TB2-AR	1	1	210	10	95.5	96.0
	2		218	7	96.9	
	3		260	16	94.2	
	4		241	11	95.6	
	5		240	5	98.0	
	1	10	217	7	96.9	96.3
	2		217	6	97.3	
	3		227	11	95.4	
	4		265	13	95.3	
	5		195	7	96.5	
	1	25	184	6	96.8	95.9
	2		220	8	96.5	
	3		220	9	96.1	
	4		232	10	95.9	
	5		188	12	94.0	
	1	50	202	5	97.6	95.2
	2		235	5	97.9	
	3		194	8	96.0	
	4		219	17	92.8	
	5		185	17	91.6	
1	100	205	11	94.9	95.5	
2		214	9	96.0		
3		202	7	96.7		
4		214	12	94.7		
5		197	10	95.2		

TABLE 16 (continued)
Survival Data for *Mytilus edulis* (Water Column Phase)

Sample ID	Replicate	Concentration (%)	# of Organisms Normal	# of Organisms Abnormal	Combined Proportion Normal ¹ (%)	Mean % Combined Proportion Normal
SYC14-AC-AR	1	1	235	16	93.6	95.3
	2		219	12	94.8	
	3		213	10	95.5	
	4		206	11	94.9	
	5		194	5	97.5	
	1	10	196	14	93.3	94.5
	2		192	12	94.1	
	3		194	10	95.1	
	4		206	15	93.2	
	5		221	8	96.5	
	1	25	219	9	96.1	96.3
	2		197	11	94.7	
	3		190	7	96.4	
	4		209	8	96.3	
	5		217	4	98.2	
	1	50	216	11	95.2	95.6
	2		192	13	93.7	
	3		219	6	97.3	
	4		225	12	94.9	
	5		213	7	96.8	
1	100	212	7	96.8	95.9	
2		189	13	93.6		
3		181	10	94.8		
4		246	5	98.0		
5		211	8	96.3		
Mean Stocking Density			266			

¹ Water for control and dilution originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 17

Summary of Survival Data for *L. plumulosus* (Solid Phase)

Sample ID	Mean Survival (%)	Std. Dev.	Statistically Less Than Reference? (yes/no)	Overlying Total Ammonia (mg/L)		Interstitial Total Ammonia (mg/L)	
				Day 0	Day 10	Day 0	Day 10
Control [^]	91	11.9		0.00	7.84	0.00	7.59
SYC14-REF	97	2.7		0.00	0.00	NM	NM
SYC14-AC*	61	15.6	Yes	0.00	0.00	0.00	0.806
SYC14-TB1*	70	14.6	Yes	0.00	0.00	0.00	0.053
SYC14-TB2*	52	20.8	Yes	0.00	0.00	0.00	0.415

[^]Control sediment originated from Tomales Bay, California; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

*Ammonia reduced sediments

NM = Not measured. Insufficient porewater available for analysis.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 18
Survival Data for *L. plumulosus* (Solid Phase)

Sample ID	Replicate	# of Organisms		% Survival	Mean Survival (%)
		Initial	Final		
Control*	1	20	19	95	91
	2	20	19	95	
	3	20	19	95	
	4	20	14	70	
	5	20	20	100	
SYC14-REF	1	20	20	100	97
	2	20	20	100	
	3	20	19	95	
	4	20	19	95	
	5	20	19	95	
SYC14-TB1	1	20	10	50	70
	2	20	18	90	
	3	20	13	65	
	4	20	14	70	
	5	20	15	75	
SYC14-TB2	1	20	11	55	52
	2	20	16	80	
	3	20	12	60	
	4	20	8	40	
	5	20	5	25	
SYC14-AC	1	20	13	65	61
	2	20	10	50	
	3	20	8	40	
	4	20	15	75	
	5	20	15	75	

^Control sediment originated from Tomales Bay, California; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 19
Summary of Survival Data for *Ampelisca abdita* (Solid Phase)

Sample ID	Mean Survival (%)	Std. Dev.	Significantly Less Than Reference (yes/no)	Overlying Total Ammonia (mg/L)		Interstitial Total Ammonia (mg/L)	
				Day 0	Day 10	Day 0	Day 10
Control [^]	98	4.5		0.12	0.00	2.75	0.00
SYC14-REF	97	2.7		1.09	0.93	2.63	NM
SYC14-AC*	96	2.2	No	0.55	0.00	4.87	0.58
SYC14-TB1*	97	2.7	No	1.11	0.00	9.49	0.19
SYC14-TB2*	98	2.7	No	1.30	0.00	8.50	1.48

[^]Control sediment originated from Tomales Bay, California; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

*Ammonia reduced sediments

NM = Not measured. Insufficient porewater available for analysis.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 20
Survival Data for *Ampelisca abdita* (Solid Phase)

Sample ID	Replicate	# of Organisms		% Survival	Mean % Survival
		Initial	Final		
Control*	1	20	20	100	98
	2	20	20	100	
	3	20	20	100	
	4	20	18	90	
	5	20	20	100	
SYC14-REF	1	20	20	100	97
	2	20	19	95	
	3	20	19	95	
	4	20	19	95	
	5	20	20	100	
SYC14-TB1	1	20	19	95	97
	2	20	19	95	
	3	20	20	100	
	4	20	20	100	
	5	20	19	95	
SYC14-TB2	1	21	21	100	98
	2	20	19	95	
	3	20	19	95	
	4	20	20	100	
	5	20	20	100	
SYC14-AC	1	20	19	95	96
	2	20	20	100	
	3	20	19	95	
	4	20	19	95	
	5	20	19	95	

*Control sediment originated from Tomales Bay, California; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 21

Summary of Survival Data for *Neanthes arenaceodentata* (Solid Phase)

Sample ID	Mean Survival (%)	Std. Dev.	Significantly Less Than Reference (yes/no)	Overlying Total Ammonia (mg/L)		Interstitial Total Ammonia (mg/L)	
				Day 0	Day 10	Day 0	Day 10
Control ^	100	0.0		0.00	0.00	NM	0.00
SYC14-REF	98	4.5		0.00	0.10	NM	0.05
SYC14-AC*	96	8.9	No	0.00	0.00	0.00	0.00
SYC14-TB1*	94	8.9	No	0.00	0.00	4.20	0.00
SYC14-TB2*	100	0.0	No	0.00	0.00	2.72	0.00

*Control sediment originated from Yaquina Bay, Oregon; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

*Ammonia reduced sediments

NM = Not measured. Insufficient porewater available for analysis.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 22
Survival Data for *Neanthes arenaceodentata* (Solid Phase)

Sample ID	Replicate	# of Organisms		% Survival	Mean % Survival
		Initial	Final		
Control*	1	10	10	100	100
	2	10	10	100	
	3	10	10	100	
	4	10	10	100	
	5	10	10	100	
SYC14-REF	1	10	10	100	98
	2	10	9	90	
	3	10	10	100	
	4	10	10	100	
	5	10	10	100	
SYC14-TB1	1	10	10	100	96
	2	10	10	100	
	3	10	8	80	
	4	10	10	100	
	5	10	10	100	
SYC14-TB2	1	10	10	100	94
	2	10	8	80	
	3	10	10	100	
	4	10	10	100	
	5	10	9	90	
SYC14-AC	1	10	10	100	100
	2	10	10	100	
	3	10	10	100	
	4	10	10	100	
	5	10	10	100	

*Control sediment originated from Tomales Bay, California; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 23
Survival Data for *Neanthes virens* (Bioaccumulation Test)

Sample ID	Replicate	# of Organisms		% Survival	Mean % Survival	Std. Dev.
		Initial	Final			
Control*	1	20	20	100	100	0.0
	2	20	20	100		
	3	20	20	100		
SYC14-REF	1	20	20	100	98	3.0
	2	20	20	100		
	3	20	20	100		
	4	20	20	100		
	5	20	20	100		
SYC14-AC	1	20	20	100	100	0.0
	2	20	20	100		
	3	20	20	100		
	4	20	19	95		
	5	20	19	95		
SYC14-TB	1	20	18	90	98	4.0
	2	20	20	100		
	3	20	20	100		
	4	20	20	100		
	5	20	20	100		

*Control sediment originated from the Damariscotta River (Boothbay Harbor, Maine); control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 24
Survival Data for *Macoma nasuta* (Bioaccumulation Test)

Sample ID	Replicate	# of Organisms		% Survival	Mean % Survival	Std. Dev.
		Initial	Final			
Control*	1	30	30	100	100	0.0
	2	30	30	100		
	3	30	30	100		
SYC14-REF	1	30	26	87	93	4.9
	2	30	30	100		
	3	30	23	77		
	4	30	29	97		
	5	30	28	93		
SYC14-AC	1	30	28	93	91	9.2
	2	30	26	87		
	3	30	27	90		
	4	30	30	100		
	5	30	28	93		
SYC14-TB	1	30	24	80	93	9.4
	2	30	30	100		
	3	30	30	100		
	4	30	30	100		
	5	30	26	87		

*Control sediment originated from Discovery Bay, Washington; control water originated from the northern portion of Hood Canal (part of Puget Sound) at Port Gamble, Washington.

Source: ENVIRON

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 25

Analytical Results for Wet Weight Lipids and Total Solids in *Neanthes virens* Tissues

Sample-Replicate #	Total Solids		Lipids		
	Result %	Qualifier	Result %	Qualifier	MRL
SYC14-AC Rep 1	15.6	--			
SYC14-AC Rep 2	15.9	--			
SYC14-AC Rep 3	16.4	--			
SYC14-AC Rep 4	16.8	--			
SYC14-AC Rep 5	15.7	--			
SYC14-TB Rep 1	15.0	--			
SYC14-TB Rep 2	14.9	--			
SYC14-TB Rep 3	15.5	--			
SYC14-TB Rep 4	15.7	--			
SYC14-TB Rep 5	15.2	--			
SYC14-REF Rep 1	15.0	--			
SYC14-REF Rep 2	15.5	--			
SYC14-REF Rep 3	15.2	--			
SYC14-REF Rep 4	16.2	--			
SYC14-REF Rep 5	15.3	--			
Pre-exposure Rep 1	15.4	--	0.87	--	0.01
Pre-exposure Rep 2	15.2	--	0.78	--	0.01
Pre-exposure Rep 3	15.2	--	0.94	--	0.01

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 26

Analytical Results for Wet Weight Lipids and Total Solids in *Macoma nasuta* Tissues

Sample-Replicate #	Total Solids		Lipids		
	Result %	Qualifier	Result %	Qualifier	MRL
SYC14-AC Rep 1	17.6	--			
SYC14-AC Rep 2	16.3	--			
SYC14-AC Rep 3	16.6	--			
SYC14-AC Rep 4	17.1	--			
SYC14-AC Rep 5	17.1	--			
SYC14-TB Rep 1	17.5	--			
SYC14-TB Rep 2	17.0	--			
SYC14-TB Rep 3	17.3	--			
SYC14-TB Rep 4	15.8	--			
SYC14-TB Rep 5	17.0	--			
SYC14-REF Rep 1	17.7	--			
SYC14-REF Rep 2	17.1	--			
SYC14-REF Rep 3	17.8	--			
SYC14-REF Rep 4	17.8	--			
SYC14-REF Rep 5	18.0	--			
Pre-exposure Rep 1	17.5	--	0.64	--	0.01
Pre-exposure Rep 2	17.9	--	0.58	--	0.01
Pre-exposure Rep 3	17.6	--	0.62	--	0.01

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 27
Analytical Results for Wet Weight Metals in *Neanthes virens* Tissues

Analyte:	Antimony				Arsenic				Beryllium				Cadmium				Chromium				Copper				Lead			
	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	0.0034	J	0.0003	0.0083	2.53	--	0.003	0.083	0.0036	--	0.0005	0.0033	0.0453	--	0.0003	0.0033	0.527	--	0.003	0.033	1.31	--	0.003	0.017	0.0929	--	0.00008	0.0033
SYC14-AC Rep 2	0.0020	J	0.0003	0.0077	2.45	--	0.003	0.077	ND	U	0.0005	0.0031	0.0400	--	0.0003	0.0031	0.080	--	0.003	0.031	1.02	--	0.003	0.015	0.0425	--	0.00008	0.0031
SYC14-AC Rep 3	0.0024	J	0.0003	0.0075	2.45	--	0.003	0.075	ND	U	0.0004	0.0030	0.0404	--	0.0003	0.0030	0.153	--	0.003	0.030	1.37	--	0.003	0.015	0.0495	--	0.00007	0.0030
SYC14-AC Rep 4	0.0091	--	0.0003	0.0075	2.66	--	0.003	0.075	ND	U	0.0004	0.0030	0.0405	--	0.0003	0.0030	0.689	--	0.003	0.030	7.96	--	0.003	0.015	0.0492	--	0.00007	0.0030
SYC14-AC Rep 5	0.0029	J	0.0003	0.0077	2.54	--	0.003	0.077	ND	U	0.0005	0.0031	0.0394	--	0.0003	0.0031	0.109	--	0.003	0.031	1.10	--	0.003	0.015	0.0515	--	0.00008	0.0031
SYC14-AC Mean	0.0040				2.53				0.0011				0.0411				0.312				2.55				0.0571			
% of Reference Tissue	171				87				216				91				207				139				123			
SYC14-TB Rep 1	0.0018	J	0.0003	0.0078	2.57	--	0.003	0.078	ND	U	0.0005	0.0031	0.0406	--	0.0003	0.0031	0.217	--	0.003	0.031	2.44	--	0.003	0.016	0.0509	--	0.00008	0.0031
SYC14-TB Rep 2	0.0022	J	0.0003	0.0075	2.39	--	0.003	0.075	0.0005	J	0.0005	0.0030	0.0416	--	0.0003	0.0030	0.270	--	0.003	0.030	4.69	--	0.003	0.015	0.0513	--	0.00008	0.0030
SYC14-TB Rep 3	0.0016	J	0.0003	0.0074	2.25	--	0.003	0.074	0.0014	J	0.0004	0.0030	0.0414	--	0.0003	0.0030	0.167	--	0.003	0.030	1.15	--	0.003	0.015	0.0630	--	0.00007	0.0030
SYC14-TB Rep 4	0.0020	J	0.0003	0.0077	2.39	--	0.003	0.077	ND	U	0.0005	0.0031	0.0436	--	0.0003	0.0031	0.165	--	0.003	0.031	2.15	--	0.003	0.015	0.0494	--	0.00008	0.0031
SYC14-TB Rep 5	0.0022	J	0.0003	0.0075	2.61	--	0.003	0.075	ND	U	0.0004	0.0030	0.0394	--	0.0003	0.0030	0.082	--	0.003	0.030	1.11	--	0.003	0.015	0.0504	--	0.00007	0.0030
SYC13-TB Mean	0.0020				2.44				0.0007				0.0413				0.180				2.31				0.0530			
% of Reference Tissue	84				84				132				91				119				125				114			
SYC14-REF Rep 1	0.0020	J	0.0003	0.0081	2.96	--	0.003	0.081	ND	U	0.0005	0.0032	0.0450	--	0.0003	0.0032	0.098	--	0.003	0.032	1.17	--	0.003	0.016	0.0431	--	0.00008	0.0032
SYC14-REF Rep 2	0.0023	J	0.0003	0.0075	3.11	--	0.003	0.075	ND	U	0.0005	0.0030	0.0428	--	0.0003	0.0030	0.295	--	0.003	0.030	4.23	--	0.003	0.015	0.0435	--	0.00008	0.0030
SYC14-REF Rep 3	0.0032	J	0.0003	0.0076	2.74	--	0.003	0.076	0.0005	J	0.0005	0.0031	0.0459	--	0.0003	0.0031	0.130	--	0.003	0.031	1.38	--	0.003	0.015	0.0530	--	0.00008	0.0031
SYC14-REF Rep 4	0.0021	J	0.0003	0.0076	3.02	--	0.003	0.076	ND	U	0.0005	0.0030	0.0443	--	0.0003	0.0030	0.116	--	0.003	0.030	1.15	--	0.003	0.015	0.0486	--	0.00008	0.0030
SYC14-REF Rep 5	0.0020	J	0.0003	0.0075	2.63	--	0.003	0.075	ND	U	0.0005	0.0030	0.0486	--	0.0003	0.0030	0.115	--	0.003	0.030	1.27	--	0.003	0.015	0.0447	--	0.00008	0.0030
SYC14-REF Mean	0.0023				2.89				0.0005				0.0453				0.151				1.84				0.0466			
Pre-exposure Rep 1	0.0033	J	0.0003	0.0078	3.47	--	0.003	0.078	ND	U	0.0005	0.0031	0.0361	--	0.0003	0.0031	0.184	--	0.003	0.031	1.40	--	0.003	0.016	0.0539	--	0.00008	0.0031
Pre-exposure Rep 2	0.0033	J	0.0003	0.0079	3.58	--	0.003	0.079	ND	U	0.0005	0.0032	0.0356	--	0.0003	0.0032	0.188	--	0.003	0.032	1.50	--	0.003	0.016	0.0528	--	0.00008	0.0032
Pre-exposure Rep 3	0.0033	J	0.0003	0.0081	3.78	--	0.003	0.081	ND	U	0.0005	0.0032	0.0369	--	0.0003	0.0032	0.208	--	0.003	0.032	1.54	--	0.003	0.016	0.0539	--	0.00008	0.0032
Pre-exposure Mean	0.0033				3.61				0.0005				0.0362				0.193				1.48				0.0535			
FDA Action Levels¹	x				76				x				3				12				x				1.5			
Eco. Effects Threshold¹	x				12.6				x				1.0				10.0				0.4				0.1			
South Atlantic Bight Background¹	<0.22				6.2 - 46				<0.22				0.68-2.7				2.8-7.1				2.5-3.5				0.36-0.6			

TABLE 27
Analytical Results for Wet Weight Metals in *Neanthes virens* Tissues

Analyte:	Mercury				Nickel				Selenium				Silver				Thallium				Zinc			
	Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL
SYC14-AC Rep 1	0.0261	--	0.0007	0.0066	0.388	--	0.003	0.033	0.35	--	0.03	0.17	0.0180	N	0.0010	0.0033	0.0017	J	0.00015	0.0033	69.2	N*	0.010	0.083
SYC14-AC Rep 2	0.0220	--	0.0006	0.0060	0.203	--	0.003	0.031	0.31	--	0.03	0.16	0.0161	N	0.0009	0.0031	0.00018	J	0.00014	0.0031	39.8	N*	0.009	0.077
SYC14-AC Rep 3	0.0245	--	0.0006	0.0060	0.244	--	0.003	0.030	0.31	--	0.03	0.15	0.0207	N	0.0009	0.0030	0.00029	J	0.00013	0.0030	20.3	N*	0.009	0.075
SYC14-AC Rep 4	0.0232	--	0.0006	0.0059	0.495	--	0.003	0.030	0.30	--	0.03	0.15	0.0226	N	0.0009	0.0030	0.00014	J	0.00013	0.0030	24.3	N*	0.009	0.075
SYC14-AC Rep 5	0.0239	--	0.0006	0.0062	0.208	--	0.003	0.031	0.35	--	0.03	0.16	0.0183	N	0.0009	0.0031	0.00019	J	0.00014	0.0031	43.8	N*	0.009	0.077
SYC14-AC Mean	0.0239				0.308				0.32				0.0191				0.00050				39.5			
% of Reference Tissue	86				187				98				90				352				230			
SYC14-TB Rep 1	0.0247	--	0.0006	0.0062	0.210	--	0.003	0.031	0.33	--	0.03	0.16	0.0170	N	0.0009	0.0031	0.00015	J	0.00014	0.0031	29.3	N*	0.009	0.078
SYC14-TB Rep 2	0.0249	--	0.0006	0.0061	0.220	--	0.003	0.030	0.33	--	0.03	0.15	0.0215	N	0.0009	0.0030	ND	U	0.00014	0.0030	44.6	N*	0.009	0.075
SYC14-TB Rep 3	0.0253	--	0.0006	0.0060	0.164	--	0.003	0.030	0.32	--	0.03	0.15	0.0184	N	0.0009	0.0030	0.00032	J	0.00013	0.0030	33.6	N*	0.009	0.074
SYC14-TB Rep 4	0.0264	--	0.0006	0.0062	0.172	--	0.003	0.031	0.34	--	0.03	0.15	0.0297	N	0.0009	0.0031	ND	U	0.00014	0.0031	9.17	N*	0.009	0.077
SYC14-TB Rep 5	0.0265	--	0.0006	0.0060	0.168	--	0.003	0.030	0.33	--	0.03	0.15	0.0230	N	0.0009	0.0030	ND	U	0.00013	0.0030	24.1	N*	0.009	0.075
SYC13-TB Mean	0.0256				0.187				0.33				0.0219				0.00018				28.2			
% of Reference Tissue	92				114				100				103				124				164			
SYC14-REF Rep 1	0.0290	--	0.0006	0.0064	0.132	--	0.003	0.032	0.32	--	0.03	0.16	0.0223	N	0.0010	0.0032	ND	U	0.00015	0.0032	27.4	N*	0.010	0.081
SYC14-REF Rep 2	0.0303	--	0.0006	0.0061	0.211	--	0.003	0.030	0.33	--	0.03	0.15	0.0240	N	0.0009	0.0030	0.00014	J	0.00014	0.0030	20.3	N*	0.009	0.075
SYC14-REF Rep 3	0.0274	--	0.0006	0.0062	0.157	--	0.003	0.031	0.33	--	0.03	0.15	0.0192	N	0.0009	0.0031	ND	U	0.00014	0.0031	8.96	N*	0.009	0.076
SYC14-REF Rep 4	0.0252	--	0.0006	0.0060	0.168	--	0.003	0.030	0.36	--	0.03	0.15	0.0190	N	0.0009	0.0030	ND	U	0.00014	0.0030	9.60	N*	0.009	0.076
SYC14-REF Rep 5	0.0266	--	0.0006	0.0061	0.154	--	0.003	0.030	0.31	--	0.03	0.15	0.0215	N	0.0009	0.0030	ND	U	0.00014	0.0030	19.7	N*	0.009	0.075
SYC14-REF Mean	0.0277				0.164				0.33				0.0212				0.00014				17.2			
Pre-exposure Rep 1	0.0272	--	0.0006	0.0062	0.260	--	0.003	0.031	0.34	--	0.03	0.16	0.0197	N	0.0009	0.0031	0.00019	J	0.00014	0.0031	9.46	N*	0.009	0.078
Pre-exposure Rep 2	0.0321	--	0.0006	0.0064	0.264	--	0.003	0.032	0.37	--	0.03	0.16	0.0282	N	0.0010	0.0032	0.00024	J	0.00014	0.0032	10.0	N*	0.010	0.079
Pre-exposure Rep 3	0.0311	--	0.0007	0.0065	0.280	--	0.003	0.032	0.35	--	0.03	0.16	0.0195	N	0.0010	0.0032	0.00019	J	0.00015	0.0033	10.1	N*	0.010	0.081
Pre-exposure Mean	0.0301				0.268				0.35				0.0225				0.00021				9.85			
FDA Action Levels ¹	1				70				x				x				x				x			
Eco. Effects Threshold ¹	0.3				2.2				14.2				1.0				0.3				0.3			
South Atlantic Bight Background ¹	0.02-0.05				1.6-3.5				1.2-1.9				<0.95				<0.22				20-27			

Data qualifiers and acronyms are defined at the front of the tables section.

Bolded Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and at least two replicate results are greater than the MRL (see Section 7.5.1 of SERIM for details).

¹ Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 28

Analytical Results for Wet Weight Metals in *Macoma nasuta* Tissues

Analyte:	Antimony				Arsenic				Beryllium				Cadmium				Chromium				Copper				Lead			
Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	0.0186	N	0.0004	0.0088	4.67	--	0.004	0.088	0.0076	--	0.0005	0.0035	0.0529	--	0.0004	0.0035	0.577	--	0.004	0.035	3.11	--	0.004	0.018	0.219	--	0.00009	0.0035
SYC14-AC Rep 2	0.0117	N	0.0003	0.0081	3.96	--	0.003	0.081	0.0087	--	0.0005	0.0032	0.0367	--	0.0003	0.0032	0.588	--	0.003	0.032	3.95	--	0.003	0.016	0.362	--	0.00008	0.0032
SYC14-AC Rep 3	0.0125	N	0.0003	0.0082	4.22	--	0.003	0.082	0.0070	--	0.0005	0.0033	0.0374	--	0.0003	0.0033	0.569	--	0.003	0.033	4.07	--	0.003	0.016	0.177	--	0.00008	0.0033
SYC14-AC Rep 4	0.0142	N	0.0003	0.0085	4.27	--	0.003	0.085	0.0112	--	0.0005	0.0034	0.0569	--	0.0003	0.0034	0.858	--	0.003	0.034	4.16	--	0.003	0.017	0.487	--	0.00008	0.0034
SYC14-AC Rep 5	0.0148	N	0.0003	0.0085	4.24	--	0.003	0.085	0.0059	--	0.0005	0.0034	0.0435	--	0.0003	0.0034	0.454	--	0.003	0.034	3.34	--	0.003	0.017	0.189	--	0.00009	0.0034
SYC14-AC Mean	0.0144				4.27				0.0081				0.0455				0.609				3.73				0.287			
% of Reference Tissue	82				92				215				107				111				105				220			
SYC14-TB Rep 1	0.0097	N	0.0003	0.0087	4.89	--	0.003	0.087	0.0069	--	0.0005	0.0035	0.0371	--	0.0003	0.0035	0.828	--	0.003	0.035	4.39	--	0.003	0.017	0.219	--	0.00009	0.0035
SYC14-TB Rep 2	0.0116	N	0.0003	0.0085	3.92	--	0.003	0.085	0.0069	--	0.0005	0.0034	0.0462	--	0.0003	0.0034	0.651	--	0.003	0.034	3.82	--	0.003	0.017	0.253	--	0.00008	0.0034
SYC14-TB Rep 3	0.0104	N	0.0003	0.0085	4.70	--	0.003	0.085	0.0073	--	0.0005	0.0034	0.0396	--	0.0003	0.0034	0.538	--	0.003	0.034	4.89	--	0.003	0.017	0.239	--	0.00009	0.0034
SYC14-TB Rep 4	0.0107	N	0.0003	0.0079	4.55	--	0.003	0.079	0.0043	--	0.0005	0.0032	0.0329	--	0.0003	0.0032	0.633	--	0.003	0.032	5.81	--	0.003	0.016	0.167	--	0.00008	0.0032
SYC14-TB Rep 5	0.0113	N	0.0003	0.0084	4.89	--	0.003	0.084	0.0057	--	0.0005	0.0034	0.0370	--	0.0003	0.0034	0.492	--	0.003	0.034	4.36	--	0.003	0.017	0.201	--	0.00008	0.0034
SYC13-TB Mean	0.0107				4.59				0.0062				0.0386				0.628				4.65				0.216			
% of Reference Tissue	61				99				165				91				115				131				166			
SYC14-REF Rep 1	0.0159	N	0.0004	0.0088	4.67	--	0.004	0.088	0.0045	--	0.0005	0.0035	0.0343	--	0.0004	0.0035	0.706	--	0.004	0.035	3.81	--	0.004	0.018	0.134	--	0.00009	0.0035
SYC14-REF Rep 2	0.0170	N	0.0003	0.0085	4.58	--	0.003	0.085	0.0030	J	0.0005	0.0034	0.0371	--	0.0003	0.0034	0.466	--	0.003	0.034	3.10	--	0.003	0.017	0.129	--	0.00008	0.0034
SYC14-REF Rep 3	0.0202	N	0.0004	0.0088	4.97	--	0.004	0.088	0.0028	J	0.0005	0.0035	0.0484	--	0.0004	0.0035	0.542	--	0.004	0.035	4.53	--	0.004	0.018	0.115	--	0.00009	0.0035
SYC14-REF Rep 4	0.0179	N	0.0004	0.0089	4.39	--	0.004	0.089	0.0044	--	0.0005	0.0035	0.0403	--	0.0004	0.0035	0.482	--	0.004	0.035	3.09	--	0.004	0.018	0.146	--	0.00009	0.0036
SYC14-REF Rep 5	0.0166	N	0.0004	0.0090	4.52	--	0.004	0.090	0.0041	--	0.0005	0.0036	0.0522	--	0.0004	0.0036	0.544	--	0.004	0.036	3.26	--	0.004	0.018	0.127	--	0.00009	0.0036
SYC14-REF Mean	0.0175				4.63				0.0038				0.0425				0.548				3.56				0.130			
Pre-exposure Rep 1	0.0145	N	0.0003	0.0087	4.20	--	0.003	0.087	0.0010	J	0.0005	0.0035	0.0446	--	0.0003	0.0035	0.236	--	0.003	0.035	4.84	--	0.003	0.017	0.104	--	0.00009	0.0035
Pre-exposure Rep 2	0.0054	J,N	0.0004	0.0089	1.65	--	0.004	0.089	0.0006	J	0.0005	0.0036	0.0162	--	0.0004	0.0036	0.091	--	0.004	0.036	2.21	--	0.004	0.018	0.0436	--	0.00009	0.0036
Pre-exposure Rep 3	0.0158	N	0.0003	0.0087	3.96	--	0.003	0.087	0.0010	J	0.0005	0.0035	0.0413	--	0.0003	0.0035	0.212	--	0.003	0.035	4.62	--	0.003	0.017	0.101	--	0.00009	0.0035
Pre-exposure Mean	0.0119				3.27				0.0009				0.0340				0.180				3.89				0.0829			
FDA Action Levels ¹	x				86				x				4				13				x				1.7			
Eco. Effects Threshold ¹	x				12.6				x				1.0				6.3				0.2				0.1			
South Atlantic Bight Background ¹	<0.16				4.4-8.6				<0.19				0.68-2.7				0.4-4.6				1.2-2.9				0.05-0.77			

TABLE 28

Analytical Results for Wet Weight Metals in *Macoma nasuta* Tissues

Analyte:	Mercury				Nickel				Selenium				Silver				Thallium				Zinc			
	Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL
SYC14-AC Rep 1	0.0188	--	0.0014	0.0140	0.679	--	0.004	0.035	0.46	--	0.04	0.18	0.0342	N	0.0011	0.0035	0.0048	--	0.00016	0.0035	20.5	--	0.011	0.088
SYC14-AC Rep 2	0.0189	--	0.0013	0.0129	0.518	--	0.003	0.032	0.43	--	0.03	0.16	0.0359	N	0.0010	0.0032	0.0041	--	0.00015	0.0032	16.6	--	0.010	0.081
SYC14-AC Rep 3	0.0202	--	0.0013	0.0131	0.526	--	0.003	0.033	0.44	--	0.03	0.16	0.0348	N	0.0010	0.0033	0.0037	--	0.00015	0.0033	18.4	--	0.010	0.082
SYC14-AC Rep 4	0.0173	--	0.0014	0.0136	0.707	--	0.003	0.034	0.48	--	0.03	0.17	0.0439	N	0.0010	0.0034	0.0056	--	0.00015	0.0034	20.5	--	0.010	0.085
SYC14-AC Rep 5	0.0194	--	0.0014	0.0136	0.492	--	0.003	0.034	0.45	--	0.03	0.17	0.0389	N	0.0010	0.0034	0.0031	J	0.00015	0.0034	17.1	--	0.010	0.085
SYC14-AC Mean	0.0189				0.584				0.45				0.0375				<u>0.0043</u>				18.6			
% of Reference Tissue	82				107				98				101				374				104			
SYC14-TB Rep 1	0.0196	--	0.0014	0.0139	0.550	--	0.003	0.035	0.44	--	0.04	0.17	0.0479	N	0.0010	0.0035	0.0017	J	0.00016	0.0035	17.3	--	0.010	0.087
SYC14-TB Rep 2	0.0178	--	0.0014	0.0136	0.490	--	0.003	0.034	0.47	--	0.03	0.17	0.0483	N	0.0010	0.0034	0.0020	J	0.00015	0.0034	17.4	--	0.010	0.085
SYC14-TB Rep 3	0.0236	--	0.0014	0.0137	0.488	--	0.003	0.034	0.49	--	0.03	0.17	0.0484	N	0.0010	0.0034	0.0017	J	0.00015	0.0034	17.5	--	0.010	0.085
SYC14-TB Rep 4	0.0231	--	0.0013	0.0126	0.496	--	0.003	0.032	0.40	--	0.03	0.16	0.0497	N	0.0009	0.0032	0.0012	J	0.00014	0.0032	16.1	--	0.009	0.079
SYC14-TB Rep 5	0.0261	--	0.0014	0.0135	0.432	--	0.003	0.034	0.46	--	0.03	0.17	0.0420	N	0.0010	0.0034	0.0014	J	0.00015	0.0034	18.8	--	0.010	0.084
SYC13-TB Mean	0.0220				0.491				0.45				0.0473				0.0016				17.4			
% of Reference Tissue	96				90				98				128				141				97			
SYC14-REF Rep 1	0.0252	--	0.0014	0.0140	0.602	--	0.004	0.035	0.47	--	0.04	0.18	0.0359	N	0.0011	0.0035	0.0012	J	0.00016	0.0035	16.9	--	0.011	0.088
SYC14-REF Rep 2	0.0205	--	0.0014	0.0135	0.526	--	0.003	0.034	0.46	--	0.03	0.17	0.0252	N	0.0010	0.0034	0.0011	J	0.00015	0.0034	16.2	--	0.010	0.085
SYC14-REF Rep 3	0.0250	--	0.0014	0.0141	0.564	--	0.004	0.035	0.47	--	0.04	0.18	0.0383	N	0.0011	0.0035	0.00089	J	0.00016	0.0035	19.1	--	0.011	0.088
SYC14-REF Rep 4	0.0225	--	0.0014	0.0142	0.539	--	0.004	0.035	0.47	--	0.04	0.18	0.0487	N	0.0011	0.0035	0.0012	J	0.00016	0.0036	17.2	--	0.011	0.089
SYC14-REF Rep 5	0.0220	--	0.0014	0.0144	0.499	--	0.004	0.036	0.43	--	0.04	0.18	0.0371	N	0.0011	0.0036	0.0013	J	0.00016	0.0036	20.0	--	0.011	0.090
SYC14-REF Mean	0.0230				0.546				0.46				0.0370				0.0011				17.9			
Pre-exposure Rep 1	0.0248	--	0.0014	0.0140	0.433	--	0.003	0.035	0.43	--	0.04	0.17	0.0396	N	0.0010	0.0035	0.00052	J	0.00016	0.0035	19.6	--	0.010	0.087
Pre-exposure Rep 2	0.0095	J	0.0014	0.0142	0.172	--	0.004	0.036	0.18	--	0.04	0.18	0.0184	N	0.0011	0.0036	0.00024	J	0.00016	0.0036	7.71	--	0.011	0.089
Pre-exposure Rep 3	0.0247	--	0.0014	0.0140	0.386	--	0.003	0.035	0.43	--	0.04	0.18	0.0439	N	0.0010	0.0035	0.00065	J	0.00016	0.0035	19.5	--	0.010	0.087
Pre-exposure Mean	0.0197				0.330				0.35				0.0340				0.0005				15.6			
FDA Action Levels ¹	1.0				80.0				x				x				x				x			
Eco. Effects Threshold ¹	0.3				2.2				14.2				1.0				0.3				11.6			
South Atlantic Bight Background ¹	<0.02				0.9-3.7				0.70-1.4				<0.96				<0.10				10-20			

Data qualifiers and acronyms are defined at the front of the tables section.

Bolded Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and at least two replicate results are greater than the MRL (see Section 7.5.1 of SERIM for details).

Underlined Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and the statistical difference is due to reference results below the MRL (see Section 7.5.3 of SERIM for details).

¹ Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 29
Analytical Results for Dry Weight Metals in *Neanthes virens* Tissues

Analyte: Sample-Replicate #	Antimony				Arsenic				Beryllium				Cadmium				Chromium				Copper				Lead			
	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	0.020	J	0.002	0.049	15.1	--	0.02	0.49	0.022	--	0.003	0.020	0.270	--	0.002	0.020	3.13	--	0.02	0.20	7.79	--	0.02	0.10	0.553	--	0.0005	0.0197
SYC14-AC Rep 2	0.013	J	0.002	0.049	15.6	--	0.02	0.49	ND	U	0.003	0.020	0.255	--	0.002	0.020	0.51	--	0.02	0.20	6.51	--	0.02	0.10	0.271	--	0.0005	0.0197
SYC14-AC Rep 3	0.016	J	0.002	0.050	16.3	--	0.02	0.50	ND	U	0.003	0.020	0.269	--	0.002	0.020	1.02	--	0.02	0.20	9.15	--	0.02	0.10	0.330	--	0.0005	0.0199
SYC14-AC Rep 4	0.061	--	0.002	0.050	17.8	--	0.02	0.50	ND	U	0.003	0.020	0.272	--	0.002	0.020	4.62	--	0.02	0.20	53.4	--	0.02	0.10	0.330	--	0.0005	0.0200
SYC14-AC Rep 5	0.018	J	0.002	0.050	16.4	--	0.02	0.50	ND	U	0.003	0.020	0.254	--	0.002	0.020	0.70	--	0.02	0.20	7.10	--	0.02	0.10	0.332	--	0.0005	0.0200
SYC14-TB Rep 1	0.011	J	0.002	0.050	16.4	--	0.02	0.50	ND	U	0.003	0.020	0.258	--	0.002	0.020	1.38	--	0.02	0.20	15.6	--	0.02	0.10	0.325	--	0.0005	0.0199
SYC14-TB Rep 2	0.014	J	0.002	0.050	15.8	--	0.02	0.50	0.004	J	0.003	0.020	0.274	--	0.002	0.020	1.78	--	0.02	0.20	30.9	--	0.02	0.10	0.338	--	0.0005	0.0199
SYC14-TB Rep 3	0.011	J	0.002	0.050	15.0	--	0.02	0.50	0.009	J	0.003	0.020	0.276	--	0.002	0.020	1.11	--	0.02	0.20	7.65	--	0.02	0.10	0.420	--	0.0005	0.0198
SYC14-TB Rep 4	0.013	J	0.002	0.050	15.4	--	0.02	0.50	ND	U	0.003	0.020	0.281	--	0.002	0.020	1.06	--	0.02	0.20	13.8	--	0.02	0.10	0.319	--	0.0005	0.0199
SYC14-TB Rep 5	0.014	J	0.002	0.049	17.2	--	0.02	0.49	ND	U	0.003	0.020	0.259	--	0.002	0.020	0.54	--	0.02	0.20	7.33	--	0.02	0.10	0.332	--	0.0005	0.0197
SYC14-REF Rep 1	0.012	J	0.002	0.050	18.3	--	0.02	0.50	ND	U	0.003	0.020	0.278	--	0.002	0.020	0.60	--	0.02	0.20	7.20	--	0.02	0.10	0.266	--	0.0005	0.0200
SYC14-REF Rep 2	0.015	J	0.002	0.049	20.3	--	0.02	0.49	ND	U	0.003	0.020	0.280	--	0.002	0.020	1.93	--	0.02	0.20	27.6	--	0.02	0.10	0.284	--	0.0005	0.0197
SYC14-REF Rep 3	0.021	J	0.002	0.050	17.8	--	0.02	0.50	0.003	J	0.003	0.020	0.298	--	0.002	0.020	0.85	--	0.02	0.20	8.97	--	0.02	0.10	0.344	--	0.0005	0.0199
SYC14-REF Rep 4	0.014	J	0.002	0.050	19.9	--	0.02	0.50	ND	U	0.003	0.020	0.292	--	0.002	0.020	0.77	--	0.02	0.20	7.57	--	0.02	0.10	0.320	--	0.0005	0.0200
SYC14-REF Rep 5	0.013	J	0.002	0.049	17.3	--	0.02	0.49	ND	U	0.003	0.020	0.320	--	0.002	0.020	0.76	--	0.02	0.20	8.34	--	0.02	0.10	0.294	--	0.0005	0.0197
Pre-exposure Rep 1	0.021	J	0.002	0.050	22.3	--	0.02	0.50	ND	U	0.003	0.020	0.231	--	0.002	0.020	1.18	--	0.02	0.20	8.95	--	0.02	0.10	0.345	--	0.0005	0.0199
Pre-exposure Rep 2	0.021	J	0.002	0.050	22.5	--	0.02	0.50	ND	U	0.003	0.020	0.224	--	0.002	0.020	1.19	--	0.02	0.20	9.42	--	0.02	0.10	0.332	--	0.0005	0.0200
Pre-exposure Rep 3	0.020	J	0.002	0.050	23.1	--	0.02	0.50	ND	U	0.003	0.020	0.225	--	0.002	0.020	1.27	--	0.02	0.20	9.41	--	0.02	0.10	0.329	--	0.0005	0.0198

TABLE 29
Analytical Results for Dry Weight Metals in *Neanthes virens* Tissues

Analyte:	Mercury				Nickel				Selenium				Silver				Thallium				Zinc			
	Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL
SYC14-AC Rep 1	0.155	--	0.004	0.039	2.31	--	0.02	0.20	2.1	--	0.2	1.0	0.107	N	0.006	0.020	0.0103	J	0.0009	0.0197	412	N*	0.06	0.49
SYC14-AC Rep 2	0.144	--	0.004	0.039	1.29	--	0.02	0.20	2.0	--	0.2	1.0	0.102	N	0.006	0.020	0.0012	J	0.0009	0.0197	254	N*	0.06	0.49
SYC14-AC Rep 3	0.163	--	0.004	0.040	1.63	--	0.02	0.20	2.0	--	0.2	1.0	0.138	N	0.006	0.020	0.0019	J	0.0009	0.0199	136	N*	0.06	0.50
SYC14-AC Rep 4	0.156	--	0.004	0.040	3.32	--	0.02	0.20	2.0	--	0.2	1.0	0.152	N	0.006	0.020	0.0010	J	0.0009	0.0200	163	N*	0.06	0.50
SYC14-AC Rep 5	0.154	--	0.004	0.040	1.34	--	0.02	0.20	2.2	--	0.2	1.0	0.118	N	0.006	0.020	0.0012	J	0.0009	0.0200	283	N*	0.06	0.50
SYC14-TB Rep 1	0.157	--	0.004	0.040	1.34	--	0.02	0.20	2.1	--	0.2	1.0	0.108	N	0.006	0.020	0.0009	J	0.0009	0.0199	187	N*	0.06	0.50
SYC14-TB Rep 2	0.164	--	0.004	0.040	1.45	--	0.02	0.20	2.2	--	0.2	1.0	0.142	N	0.006	0.020	ND	U	0.0009	0.0199	293	N*	0.06	0.50
SYC14-TB Rep 3	0.169	--	0.004	0.040	1.10	--	0.02	0.20	2.1	--	0.2	1.0	0.123	N	0.006	0.020	0.0021	J	0.0009	0.0198	224	N*	0.06	0.50
SYC14-TB Rep 4	0.170	--	0.004	0.040	1.11	--	0.02	0.20	2.2	--	0.2	1.0	0.191	N	0.006	0.020	ND	U	0.0009	0.0199	59.2	N*	0.06	0.50
SYC14-TB Rep 5	0.175	--	0.004	0.040	1.10	--	0.02	0.20	2.2	--	0.2	1.0	0.151	N	0.006	0.020	ND	U	0.0009	0.0197	159	N*	0.06	0.49
SYC14-REF Rep 1	0.179	--	0.004	0.040	0.81	--	0.02	0.20	2.0	--	0.2	1.0	0.138	N	0.006	0.020	ND	U	0.0009	0.0200	169	N*	0.06	0.50
SYC14-REF Rep 2	0.198	--	0.004	0.040	1.38	--	0.02	0.20	2.1	--	0.2	1.0	0.157	N	0.006	0.020	0.0009	J	0.0009	0.0197	133	N*	0.06	0.49
SYC14-REF Rep 3	0.178	--	0.004	0.040	1.02	--	0.02	0.20	2.2	--	0.2	1.0	0.125	N	0.006	0.020	ND	U	0.0009	0.0199	58.2	N*	0.06	0.50
SYC14-REF Rep 4	0.166	--	0.004	0.039	1.10	--	0.02	0.20	2.4	--	0.2	1.0	0.125	N	0.006	0.020	ND	U	0.0009	0.0200	63.1	N*	0.06	0.50
SYC14-REF Rep 5	0.175	--	0.004	0.040	1.01	--	0.02	0.20	2.1	--	0.2	1.0	0.141	N	0.006	0.020	ND	U	0.0009	0.0197	130	N*	0.06	0.49
Pre-exposure Rep 1	0.174	--	0.004	0.040	1.67	--	0.02	0.20	2.2	--	0.2	1.0	0.126	N	0.006	0.020	0.0012	J	0.0009	0.0199	60.7	N*	0.06	0.50
Pre-exposure Rep 2	0.202	--	0.004	0.040	1.66	--	0.02	0.20	2.3	--	0.2	1.0	0.178	N	0.006	0.020	0.0015	J	0.0009	0.0200	63.2	N*	0.06	0.50
Pre-exposure Rep 3	0.190	--	0.004	0.040	1.71	--	0.02	0.20	2.1	--	0.2	1.0	0.119	N	0.006	0.020	0.0012	J	0.0009	0.0198	61.5	N*	0.06	0.50

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 30

Analytical Results for Dry Weight Metals in *Macoma nasuta* Tissues

Analyte:	Antimony				Arsenic				Beryllium				Cadmium				Chromium				Copper				Lead			
Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	0.106	N	0.002	0.050	26.5	--	0.02	0.50	0.043	--	0.003	0.020	0.301	--	0.002	0.020	3.28	--	0.02	0.20	17.7	--	0.02	0.10	1.25	--	0.0005	0.0199
SYC14-AC Rep 2	0.072	N	0.002	0.050	24.3	--	0.02	0.50	0.053	--	0.003	0.020	0.225	--	0.002	0.020	3.61	--	0.02	0.20	24.3	--	0.02	0.10	2.22	--	0.0005	0.0198
SYC14-AC Rep 3	0.075	N	0.002	0.049	25.4	--	0.02	0.49	0.042	--	0.003	0.020	0.226	--	0.002	0.020	3.43	--	0.02	0.20	24.5	--	0.02	0.10	1.07	--	0.0005	0.0197
SYC14-AC Rep 4	0.083	N	0.002	0.050	25.0	--	0.02	0.50	0.066	--	0.003	0.020	0.333	--	0.002	0.020	5.01	--	0.02	0.20	24.3	--	0.02	0.10	2.85	--	0.0005	0.0199
SYC14-AC Rep 5	0.087	N	0.002	0.050	24.8	--	0.02	0.50	0.035	--	0.003	0.020	0.254	--	0.002	0.020	2.65	--	0.02	0.20	19.5	--	0.02	0.10	1.11	--	0.0005	0.0199
SYC14-TB Rep 1	0.055	N	0.002	0.050	28.0	--	0.02	0.50	0.039	--	0.003	0.020	0.212	--	0.002	0.020	4.73	--	0.02	0.20	25.1	--	0.02	0.10	1.25	--	0.0005	0.0198
SYC14-TB Rep 2	0.068	N	0.002	0.050	23.1	--	0.02	0.50	0.041	--	0.003	0.020	0.272	--	0.002	0.020	3.83	--	0.02	0.20	22.5	--	0.02	0.10	1.49	--	0.0005	0.0199
SYC14-TB Rep 3	0.060	N	0.002	0.049	27.2	--	0.02	0.49	0.042	--	0.003	0.020	0.229	--	0.002	0.020	3.11	--	0.02	0.20	28.3	--	0.02	0.10	1.38	--	0.0005	0.0197
SYC14-TB Rep 4	0.068	N	0.002	0.050	28.8	--	0.02	0.50	0.027	--	0.003	0.020	0.208	--	0.002	0.020	4.00	--	0.02	0.20	36.8	--	0.02	0.10	1.06	--	0.0005	0.0200
SYC14-TB Rep 5	0.067	N	0.002	0.050	28.8	--	0.02	0.50	0.034	--	0.003	0.020	0.218	--	0.002	0.020	2.90	--	0.02	0.20	25.7	--	0.02	0.10	1.18	--	0.0005	0.0199
SYC14-REF Rep 1	0.090	N	0.002	0.050	26.4	--	0.02	0.50	0.025	--	0.003	0.020	0.194	--	0.002	0.020	3.99	--	0.02	0.20	21.5	--	0.02	0.10	0.754	--	0.0005	0.0198
SYC14-REF Rep 2	0.099	N	0.002	0.050	26.8	--	0.02	0.50	0.018	J	0.003	0.020	0.217	--	0.002	0.020	2.73	--	0.02	0.20	18.2	--	0.02	0.10	0.752	--	0.0005	0.0198
SYC14-REF Rep 3	0.113	N	0.002	0.050	27.9	--	0.02	0.50	0.016	J	0.003	0.020	0.272	--	0.002	0.020	3.05	--	0.02	0.20	25.4	--	0.02	0.10	0.646	--	0.0005	0.0198
SYC14-REF Rep 4	0.100	N	0.002	0.050	24.7	--	0.02	0.50	0.025	--	0.003	0.020	0.226	--	0.002	0.020	2.71	--	0.02	0.20	17.3	--	0.02	0.10	0.823	--	0.0005	0.0199
SYC14-REF Rep 5	0.092	N	0.002	0.050	25.1	--	0.02	0.50	0.023	--	0.003	0.020	0.290	--	0.002	0.020	3.02	--	0.02	0.20	18.1	--	0.02	0.10	0.705	--	0.0005	0.0200
Pre-exposure Rep 1	0.083	N	0.002	0.050	24.0	--	0.02	0.50	0.006	J	0.003	0.020	0.255	--	0.002	0.020	1.35	--	0.02	0.20	27.6	--	0.02	0.10	0.592	--	0.0005	0.0199
Pre-exposure Rep 2	0.030	J,N	0.002	0.050	9.20	--	0.02	0.50	0.003	J	0.003	0.020	0.091	--	0.002	0.020	0.51	--	0.02	0.20	12.3	--	0.02	0.10	0.243	--	0.0005	0.0199
Pre-exposure Rep 3	0.090	N	0.002	0.050	22.5	--	0.02	0.50	0.006	J	0.003	0.020	0.234	--	0.002	0.020	1.20	--	0.02	0.20	26.2	--	0.02	0.10	0.572	--	0.0005	0.0199

TABLE 30

Analytical Results for Dry Weight Metals in *Macoma nasuta* Tissues

Analyte:	Mercury				Nickel				Selenium				Silver				Thallium				Zinc			
Sample-Replicate #	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL	Result mg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	0.107	--	0.008	0.080	3.86	--	0.02	0.20	2.6	--	0.2	1.0	0.194	N	0.006	0.020	0.0270	--	0.0009	0.0199	116	--	0.06	0.50
SYC14-AC Rep 2	0.116	--	0.008	0.079	3.18	--	0.02	0.20	2.6	--	0.2	1.0	0.220	N	0.006	0.020	0.0249	--	0.0009	0.0198	102	--	0.06	0.50
SYC14-AC Rep 3	0.122	--	0.008	0.079	3.17	--	0.02	0.20	2.6	--	0.2	1.0	0.210	N	0.006	0.020	0.0220	--	0.0009	0.0197	111	--	0.06	0.49
SYC14-AC Rep 4	0.101	--	0.008	0.079	4.13	--	0.02	0.20	2.8	--	0.2	1.0	0.257	N	0.006	0.020	0.0326	--	0.0009	0.0199	120	--	0.06	0.50
SYC14-AC Rep 5	0.113	--	0.008	0.080	2.88	--	0.02	0.20	2.6	--	0.2	1.0	0.228	N	0.006	0.020	0.0182	J	0.0009	0.0199	99.9	--	0.06	0.50
SYC14-TB Rep 1	0.112	--	0.008	0.079	3.14	--	0.02	0.20	2.5	--	0.2	1.0	0.274	N	0.006	0.020	0.0099	J	0.0009	0.0198	99.1	--	0.06	0.50
SYC14-TB Rep 2	0.104	--	0.008	0.080	2.88	--	0.02	0.20	2.7	--	0.2	1.0	0.284	N	0.006	0.020	0.0116	J	0.0009	0.0199	102	--	0.06	0.50
SYC14-TB Rep 3	0.136	--	0.008	0.079	2.82	--	0.02	0.20	2.8	--	0.2	1.0	0.280	N	0.006	0.020	0.0100	J	0.0009	0.0197	101	--	0.06	0.49
SYC14-TB Rep 4	0.146	--	0.008	0.080	3.14	--	0.02	0.20	2.5	--	0.2	1.0	0.314	N	0.006	0.020	0.0074	J	0.0009	0.0200	102	--	0.06	0.50
SYC14-TB Rep 5	0.154	--	0.008	0.079	2.54	--	0.02	0.20	2.7	--	0.2	1.0	0.247	N	0.006	0.020	0.0084	J	0.0009	0.0199	111	--	0.06	0.50
SYC14-REF Rep 1	0.143	--	0.008	0.079	3.40	--	0.02	0.20	2.7	--	0.2	1.0	0.203	N	0.006	0.020	0.0070	J	0.0009	0.0198	95.6	--	0.06	0.50
SYC14-REF Rep 2	0.120	--	0.008	0.079	3.08	--	0.02	0.20	2.7	--	0.2	1.0	0.147	N	0.006	0.020	0.0067	J	0.0009	0.0198	95.0	--	0.06	0.50
SYC14-REF Rep 3	0.141	--	0.008	0.079	3.17	--	0.02	0.20	2.6	--	0.2	1.0	0.215	N	0.006	0.020	0.0050	J	0.0009	0.0198	107	--	0.06	0.50
SYC14-REF Rep 4	0.126	--	0.008	0.080	3.03	--	0.02	0.20	2.7	--	0.2	1.0	0.274	N	0.006	0.020	0.0068	J	0.0009	0.0199	96.6	--	0.06	0.50
SYC14-REF Rep 5	0.122	--	0.008	0.080	2.77	--	0.02	0.20	2.4	--	0.2	1.0	0.206	N	0.006	0.020	0.0074	J	0.0009	0.0200	111	--	0.06	0.50
Pre-exposure Rep 1	0.142	--	0.008	0.080	2.48	--	0.02	0.20	2.5	--	0.2	1.0	0.226	N	0.006	0.020	0.0030	J	0.0009	0.0199	112	--	0.06	0.50
Pre-exposure Rep 2	0.053	J	0.008	0.079	0.96	--	0.02	0.20	1.0	--	0.2	1.0	0.103	N	0.006	0.020	0.0014	J	0.0009	0.0199	43.1	--	0.06	0.50
Pre-exposure Rep 3	0.140	--	0.008	0.079	2.19	--	0.02	0.20	2.5	--	0.2	1.0	0.250	N	0.006	0.020	0.0037	J	0.0009	0.0199	111	--	0.06	0.50

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 31

Analytical Results for Wet Weight PAHs in *Neanthes virens* Tissues

Analyte:	Total LMW PAHs	Total HMW PAHs	Total PAHs	1-Methylnaphthalene ^{LMW}			2-Methylnaphthalene ^{LMW}			Acenaphthene ^{LMW}			Acenaphthylene			Anthracene ^{LMW}			Benzo(a)anthracene ^{HMW}			Benzo(a)pyrene ^{HMW}			Benzo(b)fluoranthene										
	Result µg/kg	Result µg/kg	Result µg/kg	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL				
SYC14-AC Rep 1	8.3	16	28	ND	U	1.1	4.8	ND	U	1.2	9.5	2.1	J	0.45	4.8	ND	U	0.44	4.8	ND	U	0.36	4.8	0.79	J	0.36	4.8	ND	Ui	3.6	4.8	0.97	J	0.63	4.8
SYC14-AC Rep 2	36	18	62	5.8	--	1.1	4.8	5.7	J	1.2	9.6	7.0	--	0.46	4.8	5.8	--	0.45	4.8	2.6	J	0.37	4.8	ND	U	0.37	4.8	ND	Ui	0.74	4.8	ND	U	0.64	4.8
SYC14-AC Rep 3	8.0	16	28	ND	U	1.1	5.0	ND	U	1.2	10	2.0	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.66	J	0.38	5.0	ND	Ui	3.2	5.0	0.83	J	0.66	5.0
SYC14-AC Rep 4	46	18	74	7.2	--	1.1	5.0	6.7	J	1.2	9.9	8.3	--	0.47	5.0	6.5	--	0.46	5.0	2.9	J	0.38	5.0	0.59	J	0.38	5.0	ND	U	0.72	5.0	0.81	J	0.65	5.0
SYC14-AC Rep 5	24	17	47	3.5	J	1.1	4.9	3.5	J	1.2	9.7	5.5	--	0.46	4.9	3.2	J	0.45	4.9	1.5	J	0.37	4.9	0.59	J	0.37	4.9	ND	Ui	2.6	4.9	ND	U	0.64	4.9
SYC14-AC Mean	24	17	48	3.7				3.7				5.0				3.3				1.5				0.60				2.2				0.78			
Adjusted Concentration				3.7				3.7				5.0				3.3				1.5				1.0				4.6				1.8			
% of Reference Tissue	77	231	103	72				71				86				71				74				91				75				119			
SYC14-TB Rep 1	8.2	18	30	ND	U	1.1	5.0	ND	U	1.2	10	1.6	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.75	J	0.38	5.0	ND	Ui	3.4	5.0	ND	U	0.66	5.0
SYC14-TB Rep 2	10	22	36	ND	U	1.1	5.0	ND	U	1.2	10	2.2	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.52	J	0.38	5.0	ND	Ui	2.8	5.0	0.78	J	0.66	5.0
SYC14-TB Rep 3	8.4	27	40	ND	U	1.1	4.6	ND	U	1.1	9.2	2.1	J	0.43	4.6	0.55	J	0.42	4.6	ND	U	0.35	4.6	0.81	J	0.35	4.6	ND	Ui	2.0	4.6	1.2	J	0.61	4.6
SYC14-TB Rep 4	8.5	24	36	ND	U	1.1	4.9	ND	U	1.2	9.8	1.9	J	0.47	4.9	ND	U	0.46	4.9	ND	U	0.38	4.9	0.53	J	0.38	4.9	ND	U	0.72	4.9	0.94	J	0.65	4.9
SYC14-TB Rep 5	7.9	22	33	ND	U	1.1	4.9	ND	U	1.2	9.7	1.8	J	0.46	4.9	ND	U	0.45	4.9	ND	U	0.37	4.9	0.62	J	0.37	4.9	ND	Ui	3.2	4.9	0.78	J	0.64	4.9
SYC14-TB Mean	9	23	35	1.1				1.2				1.9				0.48				0.37				0.65				2.4				0.87			
Adjusted Concentration				1.1				1.2				1.9				0.48				0.37				1.1				5.1				2.0			
% of Reference Tissue	27	309	75	21				23				33				10				18				98				84				133			
SYC14-REF Rep 1	53	8.8	74	8.9	--	1.1	5.0	8.7	J	1.2	10	9.8	--	0.47	5.0	8.8	--	0.46	5.0	3.9	J	0.38	5.0	0.65	J	0.38	5.0	ND	Ui	3.2	5.0	ND	U	0.66	5.0
SYC14-REF Rep 2	19	7.6	32	2.8	J	1.1	4.9	2.8	J	1.2	9.8	3.4	J	0.46	4.9	2.3	J	0.45	4.9	0.90	J	0.37	4.9	0.65	J	0.37	4.9	ND	Ui	3.2	4.9	ND	U	0.65	4.9
SYC14-REF Rep 3	70	8.8	93	12	--	1.1	5.0	12	--	1.2	10	12	--	0.47	5.0	11	--	0.46	5.0	4.9	J	0.38	5.0	0.68	J	0.38	5.0	ND	Ui	3.0	5.0	ND	U	0.66	5.0
SYC14-REF Rep 4	7.3	5.2	16	ND	U	1.1	4.9	ND	U	1.2	9.7	1.2	J	0.46	4.9	ND	U	0.45	4.9	ND	U	0.37	4.9	0.57	J	0.37	4.9	ND	Ui	2.3	4.9	ND	U	0.64	4.9
SYC14-REF Rep 5	9.0	6.4	19	ND	U	1.1	5.0	ND	U	1.2	10	2.4	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.76	J	0.38	5.0	ND	Ui	2.7	5.0	ND	U	0.66	5.0
SYC14-REF Mean	32	7.4	47	5.2				5.2				5.8				4.6				2.1				0.66				2.9				0.65			
Adjusted Concentration				5.2				5.2				5.8				4.6				2.1				1.1				6.0				1.5			
Pre-exposure Rep 1	9.0	7.1	20	ND	U	1.1	4.8	ND	U	1.2	9.6	2.1	J	0.45	4.8	ND	U	0.44	4.8	ND	U	0.37	4.8	0.81	J	0.37	4.8	ND	Ui	3.6	4.8	ND	U	0.63	4.8
Pre-exposure Rep 2	9.6	6.3	19	ND	U	1.1	5.0	ND	U	1.2	9.9	2.6	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.48	J	0.38	5.0	ND	Ui	3.0	5.0	ND	U	0.66	5.0
Pre-exposure Rep 3	42	8.4	60	6.9	--	1.1	5.0	6.4	J	1.2	10	8.4	--	0.47	5.0	6.3	--	0.46	5.0	2.6	J	0.38	5.0	1.1	J	0.38	5.0	ND	Ui	3.1	5.0	ND	U	0.66	5.0
Pre-exposure Mean	20	7.3	33	3.0				2.9				4.4				2.4				1.1				0.80				3.2				0.65			
Steady State Factor ¹	x	x	x	1.0				1.0				1.0				1.0				1.0				1.7				2.1				2.3			
Eco. Effects Threshold ¹	x	x	40000	x				x				1.2				x				x				x				x				x			
S. Atl. Bight Background ¹	60.0	60.0	170	<20				<20				<20				<20				<20				<20				<20				<20			

TABLE 31

Analytical Results for Wet Weight PAHs in *Neanthes virens* Tissues

Analyte:	Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene ^{HMW}				Dibenzo(a,h)anthracene ^{HMW}				Fluoranthene ^{HMW}				Fluorene ^{LMW}				Indeno(1,2,3-cd)pyrene				Naphthalene ^{LMW}				Phenanthrene ^{LMW}				Pyrene ^{HMW}			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL				
SYC14-AC Rep 1	ND	U	0.90	4.8	ND	U	0.54	4.8	ND	U	0.52	4.8	ND	U	0.82	4.8	4.7	J	0.47	4.8	0.92	J	0.50	4.8	ND	U	0.91	4.8	ND	U	1.5	9.5	1.1	J	0.63	4.8	5.4	--	0.48	4.8
SYC14-AC Rep 2	ND	U	0.92	4.8	ND	U	0.55	4.8	2.3	J	0.53	4.8	ND	U	0.83	4.8	6.1	--	0.48	4.8	5.1	--	0.50	4.8	ND	U	0.93	4.8	5.9	J	1.5	9.6	3.8	J	0.64	4.8	7.4	--	0.48	4.8
SYC14-AC Rep 3	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	5.1	--	0.49	5.0	0.71	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	1.1	J	0.66	5.0	6.1	--	0.50	5.0
SYC14-AC Rep 4	ND	U	0.94	5.0	ND	U	0.57	5.0	0.99	J	0.55	5.0	ND	U	0.85	5.0	6.7	--	0.49	5.0	5.9	--	0.52	5.0	ND	U	0.95	5.0	7.6	J	1.5	9.9	7.0	--	0.65	5.0	8.4	--	0.50	5.0
SYC14-AC Rep 5	ND	U	0.92	4.9	ND	U	0.55	4.9	ND	U	0.53	4.9	ND	U	0.83	4.9	5.6	--	0.48	4.9	3.5	J	0.51	4.9	ND	U	0.93	4.9	3.9	J	1.5	9.7	2.5	J	0.64	4.9	6.5	--	0.49	4.9
SYC14-AC Mean	0.93				0.56				0.98				0.84				5.6				3.2				0.94				4.1				3.1				6.8			
Adjusted Concentration	2.7				1.3				1.4				1.7				6.2				3.2				2.8				4.1				3.1				7.4			
% of Reference Tissue	99				99				156				99				469				71				99				73				97				599			
SYC14-TB Rep 1	ND	U	0.95	5.0	ND	U	0.57	5.0	0.66	J	0.55	5.0	ND	U	0.86	5.0	6.7	--	0.49	5.0	0.86	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	1.6	J	0.66	5.0	5.9	--	0.50	5.0
SYC14-TB Rep 2	ND	U	0.95	5.0	ND	U	0.57	5.0	0.83	J	0.55	5.0	ND	U	0.86	5.0	9.1	--	0.49	5.0	1.2	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	2.4	J	0.66	5.0	8.3	--	0.50	5.0
SYC14-TB Rep 3	ND	U	0.87	4.6	0.65	J	0.52	4.6	0.75	J	0.51	4.6	ND	U	0.79	4.6	12	--	0.45	4.6	1.1	J	0.48	4.6	ND	U	0.88	4.6	1.5	J	1.4	9.2	1.1	J	0.61	4.6	11	--	0.46	4.6
SYC14-TB Rep 4	ND	U	0.94	4.9	0.60	J	0.56	4.9	1.1	J	0.54	4.9	ND	U	0.85	4.9	11	--	0.48	4.9	0.99	J	0.51	4.9	ND	U	0.94	4.9	ND	U	1.5	9.8	1.4	J	0.65	4.9	9.7	--	0.49	4.9
SYC14-TB Rep 5	ND	U	0.92	4.9	0.57	J	0.55	4.9	ND	U	0.53	4.9	ND	U	0.83	4.9	8.9	--	0.48	4.9	0.89	J	0.51	4.9	ND	U	0.93	4.9	ND	U	1.5	9.7	1.0	J	0.64	4.9	7.6	--	0.49	4.9
SYC14-TB Mean	0.93				0.59				0.77				0.84				9.5				1.0				0.93				1.5				1.5				8.5			
Adjusted Concentration	2.7				1.4				1.1				1.7				10				1.0				2.8				1.5				1.5				9.4			
% of Reference Tissue	99				105				123				99				794				22				98				27				47				754			
SYC14-REF Rep 1	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	1.8	J	0.49	5.0	8.2	--	0.52	5.0	ND	U	0.96	5.0	8.8	J	1.5	10	4.7	J	0.66	5.0	1.7	J	0.50	5.0
SYC14-REF Rep 2	ND	U	0.93	4.9	ND	U	0.56	4.9	0.95	J	0.54	4.9	ND	U	0.84	4.9	0.95	J	0.48	4.9	2.8	J	0.51	4.9	ND	U	0.94	4.9	3.2	J	1.5	9.8	3.1	J	0.65	4.9	0.96	J	0.49	4.9
SYC14-REF Rep 3	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	2.0	J	0.49	5.0	9.7	--	0.52	5.0	ND	U	0.96	5.0	13	--	1.5	10	6.0	--	0.66	5.0	1.7	J	0.50	5.0
SYC14-REF Rep 4	ND	U	0.92	4.9	ND	U	0.55	4.9	ND	U	0.54	4.9	ND	U	0.83	4.9	ND	U	0.48	4.9	0.88	J	0.51	4.9	ND	U	0.93	4.9	ND	U	1.5	9.7	1.0	J	0.64	4.9	0.50	J	0.49	4.9
SYC14-REF Rep 5	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	0.78	J	0.49	5.0	1.2	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	1.2	J	0.66	5.0	0.78	J	0.50	5.0
SYC14-REF Mean	0.94				0.56				0.63				0.85				1.2				4.6				0.95				5.6				3.2				1.1			
Adjusted Concentration	2.7				1.3				0.9				1.7				1.3				4.6				2.9				5.6				3.2				1.2			
Pre-exposure Rep 1	ND	U	0.91	4.8	ND	U	0.55	4.8	ND	U	0.53	4.8	ND	U	0.82	4.8	0.61	J	0.47	4.8	1.2	J	0.50	4.8	ND	U	0.92	4.8	ND	U	1.5	9.6	1.5	J	0.63	4.8	0.74	J	0.48	4.8
Pre-exposure Rep 2	ND	U	0.94	5.0	ND	U	0.57	5.0	0.59	J	0.55	5.0	ND	U	0.86	5.0	0.68	J	0.49	5.0	1.2	J	0.52	5.0	ND	U	0.95	5.0	ND	U	1.5	9.9	1.6	J	0.66	5.0	0.71	J	0.50	5.0
Pre-exposure Rep 3	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	1.4	J	0.49	5.0	6.0	--	0.52	5.0	ND	U	0.96	5.0	7.6	J	1.5	10	4.3	J	0.66	5.0	1.4	J	0.50	5.0
Pre-exposure Mean	0.93				0.56				0.56				0.85				0.90				2.8				0.94				3.5				2.5				1.0			
Steady State Factor ¹	2.9				2.3				1.4				2.0				1.1				1.0				3.0				1.0				1.0				1.1			
Eco. Effects Threshold ¹	x				x				x				x				12.8				x				x				x				x				x			
S. Atl. Bight Background ¹	<20				<20				<20				<20				<20				<20				<20				<20				<20				<20			

Data qualifiers and acronyms are defined at the front of the tables section.

Bolded Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and at least two replicate results are greater than the MRL (see Section 7.5.1 of SERIM for details).

Underlined Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and the statistical difference is due to reference results below the MRL (see Section 7.5.3 of SERIM for details).

Non-detect (ND) results use the MDL for calculating the average concentrations and total PAHs.

^{LMW} Low Molecular Weight PAHs (NOAA 1989)

^{HMW} High Molecular Weight PAHs (NOAA 1989)

¹ Steady State Factors and Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 32

Analytical Results for Wet Weight PAHs in *Macoma nasuta* Tissues

Analyte:	Total LMW PAHs	Total HMW PAHs	Total PAHs	1-Methylnaphthalene ^{LMW}				2-Methylnaphthalene ^{LMW}				Acenaphthene ^{LMW}				Acenaphthylene				Anthracene ^{LMW}				Benzo(a)anthracene ^{HMW}				Benzo(a)pyrene ^{HMW}				Benzo(b)fluoranthene			
	Result µg/kg	Result µg/kg	Result µg/kg	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	10	57	80	ND	U	1.1	4.9	ND	U	1.2	9.8	1.3	J	0.47	4.9	ND	U	0.46	4.9	1.7	J	0.38	4.9	5.3	--	0.38	4.9	3.8	J	0.72	4.9	7.6	--	0.65	4.9
SYC14-AC Rep 2	10	76	102	ND	U	1.1	5.0	ND	U	1.2	10	1.1	J	0.47	5.0	ND	U	0.46	5.0	2.1	J	0.38	5.0	7.0	--	0.38	5.0	4.9	J	0.73	5.0	9.8	--	0.66	5.0
SYC14-AC Rep 3	10	77	104	ND	U	1.1	5.0	ND	U	1.2	10	0.91	J	0.47	5.0	ND	U	0.46	5.0	2.2	J	0.38	5.0	7.1	--	0.38	5.0	4.9	J	0.73	5.0	9.9	--	0.66	5.0
SYC14-AC Rep 4	11	86	117	ND	U	1.1	5.0	ND	U	1.2	10	1.2	J	0.47	5.0	ND	U	0.46	5.0	2.6	J	0.38	5.0	7.7	--	0.38	5.0	5.6	--	0.73	5.0	11	--	0.66	5.0
SYC14-AC Rep 5	11	83	112	ND	U	1.1	5.0	ND	U	1.2	10	1.5	J	0.47	5.0	ND	U	0.46	5.0	2.4	J	0.38	5.0	7.0	--	0.38	5.0	5.2	--	0.73	5.0	11	--	0.66	5.0
SYC14-AC Mean	10	76	103	1.1				1.2				1.2				0.46				2.2				6.8				4.9				9.9			
Adjusted Concentration				1.1				1.2				1.2				0.46				2.2				12				10				23			
% of Reference Tissue	144	1057	573	100				100				200				100				582				900				674				1503			
SYC14-TB Rep 1	13	155	199	ND	U	1.1	5.0	ND	U	1.2		0.72	J	0.47	5.0	ND	U	0.46	5.0	4.5	J	0.38	5.0	17	--	0.38	5.0	10	--	0.72	5.0	20	--	0.65	5.0
SYC14-TB Rep 2	14	189	239	ND	U	1.1	5.0	ND	U	1.2		0.85	J	0.47	5.0	ND	U	0.46	5.0	5.2	--	0.38	5.0	20	--	0.38	5.0	11	--	0.73	5.0	23	--	0.66	5.0
SYC14-TB Rep 3	15	188	236	ND	U	1.1	5.0	ND	U	1.2		1.0	J	0.47	5.0	ND	U	0.46	5.0	5.4	--	0.38	5.0	19	--	0.38	5.0	11	--	0.72	5.0	21	--	0.65	5.0
SYC14-TB Rep 4	11	135	175	ND	U	1.1	5.0	ND	U	1.2		0.78	J	0.47	5.0	ND	U	0.46	5.0	3.4	J	0.38	5.0	15	--	0.38	5.0	9.2	--	0.73	5.0	19	--	0.66	5.0
SYC14-TB Rep 5	15	194	247	ND	U	1.1	5.0	ND	U	1.2		0.77	J	0.47	5.0	ND	U	0.46	5.0	5.7	--	0.38	5.0	21	--	0.38	5.0	12	--	0.73	5.0	24	--	0.66	5.0
SYC14-TB Mean	14	172	219	1.1				1.2				0.82				0.46				4.8				18				11				21			
Adjusted Concentration				1.1				1.2				0.82				0.46				4.8				31				22				49			
% of Reference Tissue	188	2394	1219	100				100				137				100				1280				2427				1470				3262			
SYC14-REF Rep 1	7.7	5.3	17	ND	U	1.1	5.0	ND	U	1.2	10	0.64	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.55	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
SYC14-REF Rep 2	7.1	5.7	16	ND	U	1.1	5.0	ND	U	1.2	9.9	0.60	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.65	J	0.38	5.0	ND	U	0.72	5.0	ND	U	0.66	5.0
SYC14-REF Rep 3	7.3	8.9	20	ND	U	1.1	5.0	ND	U	1.2	10	0.61	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.89	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
SYC14-REF Rep 4	6.8	9.4	20	ND	U	1.1	5.0	ND	U	1.2	10	0.54	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.86	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
SYC14-REF Rep 5	7.2	6.7	17	ND	U	1.1	4.9	ND	U	1.2	9.7	0.62	J	0.46	4.9	ND	U	0.45	4.9	ND	U	0.37	4.9	0.84	J	0.37	4.9	ND	U	0.71	4.9	ND	U	0.64	4.9
SYC14-REF Mean	7.2	7.2	18	1.1				1.2				0.60				0.46				0.38				0.76				0.72				0.66			
Adjusted Concentration				1.1				1.2				0.60				0.46				0.38				1.3				1.5				1.5			
Pre-exposure Rep 1	8	7	18	ND	U	1.1	5.0	ND	U	1.2	10	0.61	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.92	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
Pre-exposure Rep 2	8	6	17	ND	U	1.1	5.0	ND	U	1.2	9.9	0.58	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.79	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
Pre-exposure Rep 3	8	6	17	ND	U	1.1	5.0	ND	U	1.2	10	0.67	J	0.47	5.0	ND	U	0.46	5.0	ND	U	0.38	5.0	0.65	J	0.38	5.0	ND	U	0.73	5.0	ND	U	0.66	5.0
Pre-exposure Mean	8	6	17	1.1				1.2				0.62				0.46				0.38				0.79				0.73				0.66			
Steady State Factor ¹	x	x	x	1.0				1.0				1.0				1.0				1.0				1.7				2.1				2.3			
Eco. Effects Threshold ¹	x	x	40000	x				x				7.3				x				x				x				x				x			
S. Atl. Bight Background ¹	60.0	60.0	170	<20				<20				<20				<20				<20				<20				<20				<20			

TABLE 32

Analytical Results for Wet Weight PAHs in *Macoma nasuta* Tissues

Analyte:	Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene ^{HMW}				Dibenzo(a,h)anthracene ^{HMW}				Fluoranthene ^{HMW}				Fluorene ^{LMW}				Indeno(1,2,3-cd)pyrene				Naphthalene ^{LMW}				Phenanthrene ^{LMW}				Pyrene ^{HMW}			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL				
SYC14-AC Rep 1	0.98	J	0.94	4.9	3.0	J	0.56	4.9	5.5	--	0.54	4.9	ND	U	0.85	4.9	18	--	0.48	4.9	0.87	J	0.51	4.9	1.0	J	0.95	4.9	ND	U	1.5	9.8	2.1	J	0.65	4.9	24	--	0.49	4.9
SYC14-AC Rep 2	1.0	J	0.95	5.0	3.8	J	0.57	5.0	7.3	--	0.55	5.0	ND	U	0.86	5.0	24	--	0.49	5.0	0.90	J	0.52	5.0	1.0	J	0.96	5.0	ND	U	1.5	10	2.2	J	0.66	5.0	32	--	0.50	5.0
SYC14-AC Rep 3	0.97	J	0.95	5.0	3.9	J	0.57	5.0	6.6	--	0.55	5.0	ND	U	0.86	5.0	25	--	0.49	5.0	0.71	J	0.52	5.0	0.99	J	0.96	5.0	ND	U	1.5	10	2.2	J	0.66	5.0	33	--	0.50	5.0
SYC14-AC Rep 4	1.9	J	0.95	5.0	4.7	J	0.57	5.0	8.5	--	0.55	5.0	ND	U	0.86	5.0	28	--	0.49	5.0	0.88	J	0.52	5.0	1.7	J	0.96	5.0	ND	U	1.5	10	2.7	J	0.66	5.0	35	--	0.50	5.0
SYC14-AC Rep 5	1.1	J	0.95	5.0	4.2	J	0.57	5.0	7.3	--	0.55	5.0	ND	U	0.86	5.0	27	--	0.49	5.0	0.94	J	0.52	5.0	1.2	J	0.96	5.0	ND	U	1.5	10	2.5	J	0.66	5.0	36	--	0.50	5.0
SYC14-AC Mean	1.2				3.9				7.0				0.86				24				0.86				1.2				1.5				2.3				32			
Adjusted Concentration	3.5				9.0				9.9				1.7				27				0.86				3.5				1.5				2.3				35			
% of Reference Tissue	126				693				1266				101				984				145				124				100				127				1758			
SYC14-TB Rep 1	1.9	J	0.94	5.0	7.6	--	0.57	5.0	19	--	0.55	5.0	ND	U	0.85	5.0	53	--	0.49	5.0	0.84	J	0.52	5.0	1.9	J	0.95	5.0	ND	U	1.5	9.9	2.9	J	0.65	5.0	55	--	0.50	5.0
SYC14-TB Rep 2	1.9	J	0.95	5.0	8.7	--	0.57	5.0	23	--	0.55	5.0	ND	U	0.86	5.0	64	--	0.49	5.0	0.98	J	0.52	5.0	1.9	J	0.96	5.0	ND	U	1.5	10	3.2	J	0.66	5.0	70	--	0.50	5.0
SYC14-TB Rep 3	1.9	J	0.94	5.0	7.8	--	0.56	5.0	21	--	0.55	5.0	ND	U	0.85	5.0	66	--	0.49	5.0	1.0	J	0.52	5.0	2.0	J	0.95	5.0	ND	U	1.5	9.9	3.5	J	0.65	5.0	70	--	0.50	5.0
SYC14-TB Rep 4	1.5	J	0.95	5.0	6.7	--	0.57	5.0	18	--	0.55	5.0	ND	U	0.86	5.0	44	--	0.49	5.0	0.60	J	0.52	5.0	1.5	J	0.96	5.0	ND	U	1.5	10	2.4	J	0.66	5.0	48	--	0.50	5.0
SYC14-TB Rep 5	2.3	J	0.95	5.0	8.6	--	0.57	5.0	23	--	0.55	5.0	ND	U	0.86	5.0	66	--	0.49	5.0	1.1	J	0.52	5.0	2.3	J	0.96	5.0	ND	U	1.5	10	3.9	J	0.66	5.0	71	--	0.50	5.0
SYC14-TB Mean	1.9				7.9				21				0.86				59				0.90				1.9				1.5				3.2				63			
Adjusted Concentration	5.5				18				22				1.7				64				0.90				5.8				1.5				3.2				62			
% of Reference Tissue	202				1392				3741				100				2363				152				202				100				173				3451			
SYC14-REF Rep 1	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	1.6	J	0.49	5.0	0.65	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	2.2	J	0.66	5.0	1.0	J	0.50	5.0
SYC14-REF Rep 2	ND	U	0.94	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.85	5.0	1.5	J	0.49	5.0	0.63	J	0.52	5.0	ND	U	0.95	5.0	ND	U	1.5	9.9	1.7	J	0.66	5.0	1.4	J	0.50	5.0
SYC14-REF Rep 3	ND	U	0.95	5.0	ND	U	0.57	5.0	0.60	J	0.55	5.0	ND	U	0.86	5.0	3.3	J	0.49	5.0	0.57	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	1.9	J	0.66	5.0	2.5	J	0.50	5.0
SYC14-REF Rep 4	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	3.6	J	0.49	5.0	ND	U	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	1.6	J	0.66	5.0	2.8	J	0.50	5.0
SYC14-REF Rep 5	ND	U	0.92	4.9	ND	U	0.55	4.9	ND	U	0.53	4.9	ND	U	0.83	4.9	2.4	J	0.48	4.9	0.60	J	0.50	4.9	ND	U	0.93	4.9	ND	U	1.5	9.7	1.8	J	0.64	4.9	1.4	J	0.49	4.9
SYC14-REF Mean	0.94				0.57				0.56				0.85				2.5				0.59				0.95				1.5				1.8				1.8			
Adjusted Concentration	2.7				1.3				0.78				1.7				2.7				0.59				2.9				1.5				1.8				2.0			
Pre-exposure Rep 1	ND	U	0.95	5.0	ND	U	0.57	5.0	0.58	J	0.55	5.0	ND	U	0.86	5.0	2.1	J	0.49	5.0	0.69	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	2.1	J	0.66	5.0	1.4	J	0.50	5.0
Pre-exposure Rep 2	ND	U	0.94	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.85	5.0	1.9	J	0.49	5.0	0.60	J	0.52	5.0	ND	U	0.95	5.0	ND	U	1.5	9.9	2.3	J	0.66	5.0	1.1	J	0.50	5.0
Pre-exposure Rep 3	ND	U	0.95	5.0	ND	U	0.57	5.0	ND	U	0.55	5.0	ND	U	0.86	5.0	1.8	J	0.49	5.0	0.78	J	0.52	5.0	ND	U	0.96	5.0	ND	U	1.5	10	2.1	J	0.66	5.0	1.0	J	0.50	5.0
Pre-exposure Mean	0.95				0.57				0.56				0.86				1.9				0.69				0.96				1.5				2.2				1.2			
Steady State Factor¹	2.9				2.3				1.4				2.0				1.1				1.0				3.0				1.0				1.0				1.1			
Eco. Effects Threshold¹	x				x				x				x				8.8				x				x				x				x				x			
S. Atl. Bight Background¹	<20				<20				<20				<20				<20				<20				<20				<20				<20				<20			

Data qualifiers and acronyms are defined at the front of the tables section.

Bolded Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and at least two replicate results are greater than the MRL (see Section 7.5.1 of SERIM for details).

Underlined Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and the statistical difference is due to reference results below the MRL (see Section 7.5.3 of SERIM for details).

Italicized Values indicate results that are greater than the FDA Action Limits, Ecological Effects Threshold and/or the upper boundary of the South Atlantic Bight Background concentrations.

Non-detect (ND) results use the MDL for calculating the average concentrations and total PAHs.

^{LMW} Low Molecular Weight PAHs (NOAA 1989)

^{HMW} High Molecular Weight PAHs (NOAA 1989)

¹ Steady State Factors and Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 33
Analytical Results for Dry Weight PAHs in *Neanthes virens* Tissues

Sample-Replicate #	1-Methylnaphthalene ^{LMW}				2-Methylnaphthalene ^{LMW}				Acenaphthene ^{LMW}				Acenaphthylene				Anthracene ^{LMW}				Benzo(a)anthracene ^{HMW}				Benzo(a)pyrene ^{HMW}				Benzo(b)fluoranthene			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	ND	U	6.2	29	ND	U	6.8	57	13	J	2.7	29	ND	U	2.6	29	ND	U	2.2	29	4.7	J	2.2	29	ND	Ui	21	29	5.8	J	3.8	29
SYC14-AC Rep 2	37	--	6.8	31	36	J	7.4	62	44	--	2.9	31	37	--	2.9	31	17	J	2.4	31	ND	U	2.4	31	ND	Ui	4.8	31	ND	U	4.1	31
SYC14-AC Rep 3	ND	U	7.3	34	ND	U	8.0	67	13	J	3.2	34	ND	U	3.1	34	ND	U	2.6	34	4.4	J	2.6	34	ND	Ui	21	34	5.5	J	4.4	34
SYC14-AC Rep 4	48	--	7.3	34	45	J	8.0	67	56	--	3.2	34	43	--	3.1	34	19	J	2.6	34	4.0	J	2.6	34	ND	U	4.9	34	5.4	J	4.4	34
SYC14-AC Rep 5	23	J	6.9	32	23	J	7.5	63	36	--	3.0	32	21	J	2.9	32	10	J	2.4	32	3.8	J	2.4	32	ND	Ui	17	32	ND	U	4.1	32
SYC14-TB Rep 1	ND	U	7.0	32	ND	U	7.7	64	10	J	3.0	32	ND	U	3.0	32	ND	U	2.5	32	4.8	J	2.5	32	ND	Ui	22	32	ND	U	4.2	32
SYC14-TB Rep 2	ND	U	7.3	33	ND	U	7.9	66	15	J	3.1	33	ND	U	3.1	33	ND	U	2.5	33	3.4	J	2.5	33	ND	Ui	19	33	5.1	J	4.4	33
SYC14-TB Rep 3	ND	U	6.7	31	ND	U	7.3	61	14	J	2.9	31	3.6	J	2.8	31	ND	U	2.4	31	5.4	J	2.4	31	ND	Ui	14	31	7.8	J	4.1	31
SYC14-TB Rep 4	ND	U	7.0	32	ND	U	7.6	64	12	J	3.0	32	ND	U	3.0	32	ND	U	2.5	32	3.4	J	2.5	32	ND	U	4.7	32	6.1	J	4.2	32
SYC14-TB Rep 5	ND	U	7.0	32	ND	U	7.6	64	12	J	3.0	32	ND	U	3.0	32	ND	U	2.5	32	4.1	J	2.5	32	ND	Ui	21	32	5.1	J	4.2	32
SYC14-REF Rep 1	55	--	6.8	31	54	J	7.4	62	61	--	2.9	31	54	--	2.9	31	24	J	2.4	31	4.0	J	2.4	31	ND	Ui	20	31	ND	U	4.1	31
SYC14-REF Rep 2	18	J	7.0	32	18	J	7.7	64	22	J	3.0	32	15	J	3.0	32	5.9	J	2.5	32	4.2	J	2.5	32	ND	Ui	21	32	ND	U	4.2	32
SYC14-REF Rep 3	77	--	7.2	33	75	--	7.8	65	76	--	3.1	33	74	--	3.0	33	32	J	2.5	33	4.4	J	2.5	33	ND	Ui	20	33	ND	U	4.3	33
SYC14-REF Rep 4	ND	U	7.0	32	ND	U	7.7	64	8.2	J	3.0	32	ND	U	3.0	32	ND	U	2.5	32	3.7	J	2.5	32	ND	Ui	15	32	ND	U	4.2	32
SYC14-REF Rep 5	ND	U	7.2	33	ND	U	7.9	66	16	J	3.1	33	ND	U	3.1	33	ND	U	2.5	33	5.0	J	2.5	33	ND	Ui	18	33	ND	U	4.4	33
Pre-exposure Rep 1	ND	U	6.8	31	ND	U	7.4	61	13	J	2.9	31	ND	U	2.9	31	ND	U	2.4	31	5.2	J	2.4	31	ND	Ui	23	31	ND	U	4.1	31
Pre-exposure Rep 2	ND	U	6.9	32	ND	U	7.5	63	16	J	3.0	32	ND	U	2.9	32	ND	U	2.4	32	3.0	J	2.4	32	ND	Ui	19	32	ND	U	4.2	32
Pre-exposure Rep 3	42	--	6.7	31	39	J	7.3	61	51	--	2.9	31	38	--	2.8	31	16	J	2.4	31	6.6	J	2.4	31	ND	Ui	19	31	ND	U	4.1	31

TABLE 33
Analytical Results for Dry Weight PAHs in *Neanthes virens* Tissues

Sample-Replicate #	Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene ^{HMW}				Dibenzo (a,h)anthracene ^{HMW}				Fluoranthene ^{HMW}				Fluorene ^{LMW}				Indeno(1,2,3-cd)pyrene				Naphthalene ^{LMW}				Phenanthrene ^{LMW}				Pyrene ^{HMW}			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL				
SYC14-AC Rep 1	ND	U	5.4	29	ND	U	3.3	29	ND	U	3.1	29	ND	U	4.9	29	28	J	2.8	29	5.5	J	3.0	29	ND	U	5.4	29	ND	U	8.5	57	6.7	J	3.8	29	32	--	2.9	29
SYC14-AC Rep 2	ND	U	5.9	31	ND	U	3.5	31	15	J	3.4	31	ND	U	5.3	31	39	--	3.0	31	33	--	3.2	31	ND	U	5.9	31	38	J	9.2	62	24	J	4.1	31	47	--	3.1	31
SYC14-AC Rep 3	ND	U	6.4	34	ND	U	3.8	34	ND	U	3.7	34	ND	U	5.8	34	34	--	3.3	34	4.7	J	3.5	34	ND	U	6.4	34	ND	U	10	67	7.6	J	4.4	34	41	--	3.4	34
SYC14-AC Rep 4	ND	U	6.3	34	ND	U	3.8	34	6.7	J	3.7	34	ND	U	5.7	34	45	--	3.3	34	39	--	3.5	34	ND	U	6.4	34	51	J	10	67	47	--	4.4	34	56	--	3.4	34
SYC14-AC Rep 5	ND	U	5.9	32	ND	U	3.6	32	ND	U	3.5	32	ND	U	5.4	32	36	--	3.1	32	22	J	3.3	32	ND	U	6.0	32	25	J	9.4	63	16	J	4.1	32	42	--	3.2	32
SYC14-TB Rep 1	ND	U	6.1	32	ND	U	3.7	32	4.2	J	3.5	32	ND	U	5.5	32	43	--	3.2	32	5.4	J	3.3	32	ND	U	6.1	32	ND	U	9.6	64	10	J	4.2	32	38	--	3.2	32
SYC14-TB Rep 2	ND	U	6.3	33	ND	U	3.8	33	5.4	J	3.7	33	ND	U	5.7	33	60	--	3.3	33	8.1	J	3.5	33	ND	U	6.3	33	ND	U	9.9	66	16	J	4.4	33	54	--	3.3	33
SYC14-TB Rep 3	ND	U	5.8	31	4.3	J	3.5	31	5.0	J	3.4	31	ND	U	5.3	31	80	--	3.0	31	7.2	J	3.2	31	ND	U	5.9	31	9.9	J	9.2	61	7.6	J	4.1	31	74	--	3.1	31
SYC14-TB Rep 4	ND	U	6.1	32	3.9	J	3.7	32	7.0	J	3.5	32	ND	U	5.5	32	69	--	3.1	32	6.4	J	3.3	32	ND	U	6.1	32	ND	U	9.5	64	9.3	J	4.2	32	63	--	3.2	32
SYC14-TB Rep 5	ND	U	6.1	32	3.7	J	3.7	32	ND	U	3.5	32	ND	U	5.5	32	58	--	3.2	32	5.8	J	3.3	32	ND	U	6.1	32	ND	U	9.5	64	6.8	J	4.2	32	50	--	3.2	32
SYC14-REF Rep 1	ND	U	5.9	31	ND	U	3.6	31	ND	U	3.4	31	ND	U	5.3	31	11	J	3.1	31	50	--	3.3	31	ND	U	6.0	31	54	J	9.3	62	29	J	4.1	31	11	J	3.1	31
SYC14-REF Rep 2	ND	U	6.1	32	ND	U	3.7	32	6.2	J	3.5	32	ND	U	5.5	32	6.2	J	3.2	32	18	J	3.3	32	ND	U	6.1	32	21	J	9.6	64	20	J	4.2	32	6.3	J	3.2	32
SYC14-REF Rep 3	ND	U	6.2	33	ND	U	3.7	33	ND	U	3.6	33	ND	U	5.6	33	13	J	3.2	33	63	--	3.4	33	ND	U	6.3	33	82	--	9.7	65	39	--	4.3	33	11	J	3.3	33
SYC14-REF Rep 4	ND	U	6.1	32	ND	U	3.7	32	ND	U	3.5	32	ND	U	5.5	32	ND	U	3.2	32	5.8	J	3.3	32	ND	U	6.1	32	ND	U	9.6	64	6.8	J	4.2	32	3.3	J	3.2	32
SYC14-REF Rep 5	ND	U	6.2	33	ND	U	3.8	33	ND	U	3.6	33	ND	U	5.7	33	5.2	J	3.2	33	8.2	J	3.4	33	ND	U	6.3	33	ND	U	9.8	66	7.7	J	4.4	33	5.2	J	3.3	33
Pre-exposure Rep 1	ND	U	5.8	31	ND	U	3.5	31	ND	U	3.4	31	ND	U	5.3	31	3.9	J	3.0	31	7.4	J	3.2	31	ND	U	5.9	31	ND	U	9.2	61	9.8	J	4.1	31	4.8	J	3.1	31
Pre-exposure Rep 2	ND	U	6.0	32	ND	U	3.6	32	3.7	J	3.5	32	ND	U	5.4	32	4.3	J	3.1	32	7.6	J	3.3	32	ND	U	6.0	32	ND	U	9.4	63	9.8	J	4.2	32	4.5	J	3.2	32
Pre-exposure Rep 3	ND	U	5.8	31	ND	U	3.5	31	ND	U	3.4	31	ND	U	5.3	31	8.3	J	3.0	31	37	--	3.2	31	ND	U	5.9	31	47	J	9.2	61	26	J	4.1	31	8.4	J	3.1	31

Data qualifiers and acronyms are defined at the front of the tables section.

^{LMW} Low Molecular Weight PAHs (NOAA 1989)

^{HMW} High Molecular Weight PAHs (NOAA 1989)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 34
Analytical Results for Dry Weight PAHs in *Macoma nasuta* Tissues

Analyte:	1-Methylnaphthalene ^{LMW}				2-Methylnaphthalene ^{LMW}				Acenaphthene ^{LMW}				Acenaphthylene				Anthracene ^{LMW}				Benzo(a)anthracene ^{HMW}				Benzo(a)pyrene ^{HMW}				Benzo(b)fluoranthene			
Sample-Replicate #	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
SYC14-AC Rep 1	ND	U	6.2	28	ND	U	6.7	56	7.5	J	2.7	28	ND	U	2.6	28	9.5	J	2.2	28	30	--	2.2	28	22	J	4.1	28	43	--	3.7	28
SYC14-AC Rep 2	ND	U	6.8	31	ND	U	7.4	62	6.6	J	2.9	31	ND	U	2.9	31	13	J	2.4	31	43	--	2.4	31	30	J	4.5	31	60	--	4.1	31
SYC14-AC Rep 3	ND	U	6.7	31	ND	U	7.3	61	5.5	J	2.9	31	ND	U	2.8	31	13	J	2.3	31	43	--	2.3	31	30	J	4.4	31	59	--	4.0	31
SYC14-AC Rep 4	ND	U	6.5	30	ND	U	7.1	59	6.8	J	2.8	30	ND	U	2.7	30	15	J	2.3	30	45	--	2.3	30	33	--	4.3	30	66	--	3.9	30
SYC14-AC Rep 5	ND	U	6.5	30	ND	U	7.1	59	8.5	J	2.8	30	ND	U	2.7	30	14	J	2.3	30	41	--	2.3	30	31	--	4.3	30	63	--	3.9	30
SYC14-TB Rep 1	ND	U	6.2	29	ND	U	6.8	57	4.1	J	2.7	29	ND	U	2.6	29	26	J	2.2	29	98	--	2.2	29	58	--	4.2	29	120	--	3.8	29
SYC14-TB Rep 2	ND	U	6.5	30	ND	U	7.1	59	5.0	J	2.8	30	ND	U	2.7	30	30	--	2.3	30	110	--	2.3	30	66	--	4.3	30	130	--	3.9	30
SYC14-TB Rep 3	ND	U	6.3	29	ND	U	6.9	57	5.9	J	2.7	29	ND	U	2.7	29	31	--	2.2	29	110	--	2.2	29	61	--	4.2	29	120	--	3.8	29
SYC14-TB Rep 4	ND	U	7.0	32	ND	U	7.6	64	4.9	J	3.0	32	ND	U	2.9	32	22	J	2.4	32	97	--	2.4	32	58	--	4.7	32	120	--	4.2	32
SYC14-TB Rep 5	ND	U	6.5	30	ND	U	7.1	59	4.5	J	2.8	30	ND	U	2.8	30	34	--	2.3	30	120	--	2.3	30	72	--	4.3	30	140	--	3.9	30
SYC14-REF Rep 1	ND	U	6.3	29	ND	U	6.8	57	3.6	J	2.7	29	ND	U	2.6	29	ND	U	2.2	29	3.1	J	2.2	29	ND	U	4.2	29	ND	U	3.8	29
SYC14-REF Rep 2	ND	U	6.4	29	ND	U	7.0	58	3.5	J	2.8	29	ND	U	2.7	29	ND	U	2.2	29	3.8	J	2.2	29	ND	U	4.3	29	ND	U	3.9	29
SYC14-REF Rep 3	ND	U	6.2	29	ND	U	6.8	57	3.4	J	2.7	29	ND	U	2.6	29	ND	U	2.2	29	5.0	J	2.2	29	ND	U	4.1	29	ND	U	3.8	29
SYC14-REF Rep 4	ND	U	6.2	29	ND	U	6.8	57	3.0	J	2.7	29	ND	U	2.6	29	ND	U	2.2	29	4.8	J	2.2	29	ND	U	4.1	29	ND	U	3.7	29
SYC14-REF Rep 5	ND	U	5.9	27	ND	U	6.5	54	3.5	J	2.6	27	ND	U	2.5	27	ND	U	2.1	27	4.6	J	2.1	27	ND	U	3.9	27	ND	U	3.6	27
Pre-exposure Rep 1	ND	U	6.3	29	ND	U	6.9	57	3.5	J	2.7	29	ND	U	2.7	29	ND	U	2.2	29	5.2	J	2.2	29	ND	U	4.2	29	ND	U	3.8	29
Pre-exposure Rep 2	ND	U	6.1	28	ND	U	6.7	56	3.3	J	2.6	28	ND	U	2.6	28	ND	U	2.1	28	4.4	J	2.1	28	ND	U	4.1	28	ND	U	3.7	28
Pre-exposure Rep 3	ND	U	6.3	29	ND	U	6.9	57	3.8	J	2.7	29	ND	U	2.7	29	ND	U	2.2	29	3.7	J	2.2	29	ND	U	4.2	29	ND	U	3.8	29

TABLE 34

Analytical Results for Dry Weight PAHs in *Macoma nasuta* Tissues

Sample-Replicate #	Analyte: Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene ^{HMW}				Dibenzo (a,h)anthracene ^{HMW}				Fluoranthene ^{HMW}				Fluorene ^{LMW}				Indeno(1,2,3-cd)pyrene				Naphthalene ^{LMW}				Phenanthrene ^{LMW}				Pyrene ^{HMW}			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL				
SYC14-AC Rep 1	5.6	J	5.3	28	17	J	3.2	28	31	--	3.1	28	ND	U	4.8	28	100	--	2.8	28	5.0	J	2.9	28	5.8	J	5.4	28	ND	U	8.4	56	12	J	3.7	28	140	--	2.8	28
SYC14-AC Rep 2	6.3	J	5.8	31	23	J	3.5	31	45	--	3.4	31	ND	U	5.3	31	150	--	3.0	31	5.5	J	3.2	31	6.3	J	5.9	31	ND	U	9.2	62	13	J	4.1	31	190	--	3.1	31
SYC14-AC Rep 3	5.8	J	5.8	31	23	J	3.5	31	40	--	3.4	31	ND	U	5.2	31	150	--	3.0	31	4.3	J	3.2	31	6.0	J	5.8	31	ND	U	9.1	61	13	J	4.0	31	200	--	3.1	31
SYC14-AC Rep 4	11	J	5.6	30	27	J	3.4	30	50	--	3.3	30	ND	U	5.1	30	160	--	2.9	30	5.1	J	3.1	30	10	J	5.7	30	ND	U	8.8	59	16	J	3.9	30	200	--	3.0	30
SYC14-AC Rep 5	6.5	J	5.6	30	25	J	3.4	30	43	--	3.3	30	ND	U	5.1	30	160	--	2.9	30	5.5	J	3.1	30	7.1	J	5.7	30	ND	U	8.8	59	15	J	3.9	30	210	--	3.0	30
SYC14-TB Rep 1	11	J	5.4	29	43	--	3.3	29	110	--	3.1	29	ND	U	4.9	29	300	--	2.8	29	4.8	J	3.0	29	11	J	5.5	29	ND	U	8.5	57	17	J	3.8	29	320	--	2.9	29
SYC14-TB Rep 2	11	J	5.6	30	51	--	3.4	30	140	--	3.3	30	ND	U	5.1	30	380	--	2.9	30	5.8	J	3.1	30	11	J	5.7	30	ND	U	8.8	59	19	J	3.9	30	410	--	3.0	30
SYC14-TB Rep 3	11	J	5.4	29	45	--	3.3	29	120	--	3.2	29	ND	U	4.9	29	380	--	2.8	29	5.8	J	3.0	29	12	J	5.5	29	ND	U	8.6	57	20	J	3.8	29	400	--	2.9	29
SYC14-TB Rep 4	9.4	J	6.0	32	42	--	3.6	32	120	--	3.5	32	ND	U	5.5	32	280	--	3.1	32	3.8	J	3.3	32	9.5	J	6.1	32	ND	U	9.5	64	15	J	4.2	32	310	--	3.2	32
SYC14-TB Rep 5	13	J	5.6	30	51	--	3.4	30	140	--	3.3	30	ND	U	5.1	30	390	--	2.9	30	6.4	J	3.1	30	14	J	5.7	30	ND	U	8.9	59	23	J	3.9	30	420	--	3.0	30
SYC14-REF Rep 1	ND	U	5.4	29	ND	U	3.3	29	ND	U	3.2	29	ND	U	4.9	29	8.9	J	2.8	29	3.7	J	3.0	29	ND	U	5.5	29	ND	U	8.5	57	13	J	3.8	29	5.9	J	2.9	29
SYC14-REF Rep 2	ND	U	5.5	29	ND	U	3.3	29	ND	U	3.2	29	ND	U	5.0	29	8.8	J	2.9	29	3.7	J	3.0	29	ND	U	5.6	29	ND	U	8.7	58	9.7	J	3.9	29	8.5	J	2.9	29
SYC14-REF Rep 3	ND	U	5.4	29	ND	U	3.2	29	3.4	J	3.1	29	ND	U	4.9	29	19	J	2.8	29	3.2	J	3.0	29	ND	U	5.4	29	ND	U	8.5	57	11	J	3.8	29	14	J	2.9	29
SYC14-REF Rep 4	ND	U	5.4	29	ND	U	3.2	29	ND	U	3.1	29	ND	U	4.9	29	20	J	2.8	29	ND	U	3.0	29	ND	U	5.4	29	ND	U	8.5	57	9.1	J	3.7	29	16	J	2.9	29
SYC14-REF Rep 5	ND	U	5.1	27	ND	U	3.1	27	ND	U	3.0	27	ND	U	4.6	27	13	J	2.7	27	3.4	J	2.8	27	ND	U	5.2	27	ND	U	8.1	54	10	J	3.6	27	7.7	J	2.7	27
Pre-exposure Rep 1	ND	U	5.5	29	ND	U	3.3	29	3.3	J	3.2	29	ND	U	4.9	29	12	J	2.8	29	3.9	J	3.0	29	ND	U	5.5	29	ND	U	8.6	57	12	J	3.8	29	7.9	J	2.9	29
Pre-exposure Rep 2	ND	U	5.3	28	ND	U	3.2	28	ND	U	3.1	28	ND	U	4.8	28	11	J	2.8	28	3.4	J	2.9	28	ND	U	5.3	28	ND	U	8.3	56	13	J	3.7	28	6.3	J	2.8	28
Pre-exposure Rep 3	ND	U	5.4	29	ND	U	3.3	29	ND	U	3.2	29	ND	U	4.9	29	10	J	2.8	29	4.4	J	3.0	29	ND	U	5.5	29	ND	U	8.6	57	12	J	3.8	29	5.7	J	2.9	29

Data qualifiers and acronyms are defined at the front of the tables section.

^{LMW} Low Molecular Weight PAHs (NOAA 1989)

^{HMW} High Molecular Weight PAHs (NOAA 1989)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 35

Analytical Results for Wet Weight Organotins in *Neanthes virens* Tissues

Analyte:	Total Organotins as Tin	n-butyltin Cation				Di-n-butyltin Cation				Tri-n-butyltin Cation			
		Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
Sample-Replicate #													
SYC14-TB Rep 1	0.44	ND	U	0.18	1.0	0.54	J	0.11	1.0	ND	U	0.11	1.0
SYC14-TB Rep 2	0.53	ND	U	0.18	0.98	0.72	J	0.11	0.98	ND	U	0.11	0.98
SYC14-TB Rep 3	0.30	ND	U	0.18	0.98	0.27	J	0.11	0.98	ND	U	0.11	0.98
SYC14-TB Rep 4	0.39	ND	U	0.18	0.98	0.43	J	0.11	0.98	ND	U	0.11	0.98
SYC14-TB Rep 5	0.26	ND	U	0.18	1.0	0.18	J	0.11	1.0	ND	U	0.11	1.0
SYC14-TB Mean	0.39	0.18				0.43				0.11			
% of Reference Tissue	67	68				62				100			
SYC14-REF Rep 1	0.62	0.25	J	0.18	1.0	0.80	J	0.11	1.0	ND	U	0.11	1.0
SYC14-REF Rep 2	0.94	0.35	J	0.18	0.98	1.3	--	0.11	0.98	ND	U	0.11	0.98
SYC14-REF Rep 3	0.56	0.24	J	0.18	1.0	0.70	J	0.11	1.0	ND	U	0.11	1.0
SYC14-REF Rep 4	0.48	0.31	J	0.18	1.0	0.44	J	0.11	1.0	ND	U	0.11	1.0
SYC14-REF Rep 5	0.28	ND	U	0.18	1.0	0.22	J	0.11	1.0	ND	U	0.11	1.0
SYC14-REF Mean	0.58	0.27				0.69				0.11			
Pre-exposure Rep 1	0.22	ND	U	0.18	0.99	ND	U	0.11	0.99	ND	U	0.11	0.99
Pre-exposure Rep 2	0.28	0.26	J	0.18	1.0	ND	U	0.11	1.0	ND	U	0.11	1.0
Pre-exposure Rep 3	0.22	ND	U	0.18	1.0	ND	U	0.11	1.0	ND	U	0.11	1.0
Pre-exposure Mean	0.24	0.21				0.11				0.11			
Eco. Effects Threshold ¹	x	x				x				52.4			

Data qualifiers and acronyms are defined at the front of the tables section.

Non-detect (ND) results use the MDL for calculating total organotins as tin.

¹ Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 36

Analytical Results for Wet Weight Organotins in *Macoma nasuta* Tissues

Analyte:	Total Organotins as Tin	n-butyltin Cation				Di-n-butyltin Cation				Tri-n-butyltin Cation			
		Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
Sample-Replicate #													
SYC14-TB Rep 1	25	35	--	0.18	1.0	2.4	--	0.11	1.0	0.34	J	0.11	1.0
SYC14-TB Rep 2	16	21	--	0.18	0.99	3.1	--	0.11	0.99	0.45	J	0.11	0.99
SYC14-TB Rep 3	14	18	--	0.18	1.0	2.9	--	0.11	1.0	0.31	J	0.11	1.0
SYC14-TB Rep 4	15	19	--	0.18	1.0	3.9	--	0.11	1.0	0.32	J	0.11	1.0
SYC14-TB Rep 5	20	26	--	0.18	1.0	3.8	--	0.11	1.0	0.39	J	0.11	1.0
SYC14-TB Mean	18	24				3.2				0.36			
% of Reference Tissue	137	145				88				197			
SYC14-REF Rep 1	16	21	--	0.18	1.0	3.1	--	0.11	1.0	0.20	J	0.11	1.0
SYC14-REF Rep 2	9.2	12	--	0.18	0.98	2.0	--	0.11	0.98	0.15	J	0.11	0.98
SYC14-REF Rep 3	15	19	--	0.18	1.0	4.3	--	0.11	1.0	0.17	J	0.11	1.0
SYC14-REF Rep 4	13	16	--	0.18	0.99	4.3	--	0.11	0.99	0.21	J	0.11	0.99
SYC14-REF Rep 5	12	14	--	0.18	0.99	4.6	--	0.11	0.99	0.19	J	0.11	0.99
SYC14-REF Mean	13	16				3.7				0.18			
Pre-exposure Rep 1	0.24	ND	U	0.18	0.96	0.13	J	0.11	0.96	0.12	J	0.11	0.96
Pre-exposure Rep 2	0.25	ND	U	0.18	0.98	0.14	J	0.11	0.98	0.13	J	0.11	0.98
Pre-exposure Rep 3	0.24	ND	U	0.18	1.0	0.14	J	0.11	1.0	0.12	JP	0.11	1.0
Pre-exposure Mean	0.24	0.18				0.14				0.12			
Eco. Effects Threshold¹	x	x				x				114.4			

Data qualifiers and acronyms are defined at the front of the tables section.

Bolded Values indicate that the mean concentration of project tissues is statistically significantly greater than the reference tissues and at least two replicate results are greater than the MRL (see Section 7.5.1 of SERIM for details).

Non-detect (ND) results use the MDL for calculating total organotins as tin.

¹ Levels/Limits from Appendix H of SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 37

Analytical Results for Dry Weight Organotins in *Neanthes virens* Tissues

Analyte:	n-butyltin Cation				Di-n-butyltin Cation				Tri-n-butyltin Cation			
Sample-Replicate #	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
SYC14-TB REP 1	ND	U	1.2	6.4	3.4	J	0.70	6.4	ND	U	0.70	6.4
SYC14-TB REP 2	ND	U	1.2	6.5	4.7	J	0.71	6.5	ND	U	0.71	6.5
SYC14-TB REP 3	ND	U	1.2	6.5	1.8	J	0.72	6.5	ND	U	0.72	6.5
SYC14-TB REP 4	ND	U	1.2	6.4	2.8	J	0.70	6.4	ND	U	0.70	6.4
SYC14-TB REP 5	ND	U	1.2	6.6	1.2	J	0.73	6.6	ND	U	0.73	6.6
SYC14-REF Rep 1	1.5	J	1.2	6.2	5.0	J	0.68	6.2	ND	U	0.68	6.2
SYC14-REF Rep 2	2.3	J	1.2	6.4	8.3	--	0.71	6.4	ND	U	0.71	6.4
SYC14-REF Rep 3	1.6	J	1.2	6.5	4.5	J	0.71	6.5	ND	U	0.71	6.5
SYC14-REF Rep 4	2.0	J	1.2	6.6	2.9	J	0.72	6.6	ND	U	0.72	6.6
SYC14-REF Rep 5	ND	U	1.2	6.6	1.4	J	0.72	6.6	ND	U	0.72	6.6
Pre-exposure Rep 1	ND	U	1.2	6.4	ND	U	0.70	6.4	ND	U	0.70	6.4
Pre-exposure Rep 2	1.7	J	1.2	6.3	ND	U	0.69	6.3	ND	U	0.69	6.3
Pre-exposure Rep 3	ND	U	1.1	6.1	ND	U	0.67	6.1	ND	U	0.67	6.1

Data qualifiers and acronyms are defined at the front of the tables section.

Non-detect (ND) results use the MDL for calculating total organotins as tin.

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 38

Analytical Results for Dry Weight Organotins in *Macoma nasuta* Tissues

Analyte:	n-butyltin Cation				Di-n-butyltin Cation				Tri-n-butyltin Cation			
	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL	Result µg/kg	Qualifier	MDL	MRL
SYC14-TB REP 1	200	--	1.1	5.7	14	--	0.63	5.7	2.0	J	0.63	5.7
SYC14-TB REP 2	120	--	1.1	5.9	18	--	0.64	5.9	2.7	J	0.64	5.9
SYC14-TB REP 3	100	--	1.1	5.8	17	--	0.64	5.8	1.8	J	0.64	5.8
SYC14-TB REP 4	120	--	1.2	6.3	25	--	0.70	6.3	2.0	J	0.70	6.3
SYC14-TB REP 5	150	--	1.1	5.9	23	--	0.65	5.9	2.3	J	0.65	5.9
SYC14-REF Rep 1	120	--	1.1	5.7	18	--	0.62	5.7	1.1	J	0.62	5.7
SYC14-REF Rep 2	70	--	1.1	5.8	12	--	0.63	5.8	0.88	J	0.63	5.8
SYC14-REF Rep 3	100	--	1.1	5.6	24	--	0.62	5.6	0.98	J	0.62	5.6
SYC14-REF Rep 4	93	--	1.0	5.6	24	--	0.61	5.6	1.2	J	0.61	5.6
SYC14-REF Rep 5	76	--	0.99	5.5	26	--	0.61	5.5	1.1	J	0.61	5.5
Pre-exposure Rep 1	ND	U	0.99	5.5	0.73	J	0.60	5.5	0.71	J	0.60	5.5
Pre-exposure Rep 2	ND	U	0.98	5.5	0.78	J	0.60	5.5	0.72	J	0.60	5.5
Pre-exposure Rep 3	ND	U	1.1	5.7	0.77	J	0.63	5.7	0.70	JP	0.63	5.7

Data qualifiers and acronyms are defined at the front of the tables section.
 Non-detect (ND) results use the MDL for calculating total organotins as tin.

Source: ALS Environmental
 Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 39
Analytical Results for Wet Weight Dioxins and Furans in *Neanthes virens* tissues

Sample-Replicate #	Analyte: Dioxin/Furan TEQ (ng/kg)	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)					1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)					1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)				
		Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	2.10	ND	U	1.14	1.14	1.140	ND	U	0.562	3.61	0.562	ND	U	0.182	3.61	0.018	ND	U	0.210	3.61	0.021	ND	U	0.182	3.61	0.018	1.30	BJK	0.0999	3.61	0.013
SYC14-AC REP 2	1.76	ND	U	0.886	0.886	0.886	ND	U	0.475	3.28	0.475	ND	U	0.201	3.28	0.020	ND	U	0.231	3.28	0.023	ND	U	0.200	3.28	0.020	0.827	BJK	0.220	3.28	0.008
SYC14-AC REP 3	1.53	ND	U	0.828	0.828	0.828	ND	U	0.372	3.06	0.372	ND	U	0.256	3.06	0.026	ND	U	0.275	3.06	0.028	ND	U	0.247	3.06	0.025	0.820	BJK	0.225	3.06	0.008
SYC14-AC REP 4	1.73	ND	U	0.809	0.809	0.809	ND	U	0.530	3.72	0.530	ND	U	0.230	3.72	0.023	ND	U	0.254	3.72	0.025	ND	U	0.225	3.72	0.023	1.35	BJK	0.210	3.72	0.014
SYC14-AC REP 5	1.38	ND	U	0.674	0.674	0.674	ND	U	0.309	3.21	0.309	ND	U	0.0789	3.21	0.008	ND	U	0.0854	3.21	0.009	ND	U	0.0762	3.21	0.008	0.774	BJK	0.239	3.21	0.008
SYC14-AC Comp Mean ¹	1.70	0.867					0.450					0.190					0.211					0.186					1.01				
% of reference tissue	465	719					479					481					404					409					136				
SYC14-TB Rep 1	1.67	ND	U	0.846	0.846	0.846	ND	U	0.403	3.64	0.403	ND	U	0.190	3.64	0.019	ND	U	0.220	3.64	0.022	ND	U	0.190	3.64	0.019	0.805	BJK	0.223	3.64	0.008
SYC14-TB Rep 2	1.77	ND	U	1.12	1.12	1.12	ND	U	0.352	3.43	0.352	ND	U	0.130	3.43	0.013	ND	U	0.144	3.43	0.014	ND	U	0.127	3.43	0.013	0.705	BJK	0.154	3.43	0.007
SYC14-TB Rep 3	2.35	ND	U	1.04	1.04	1.04	ND	U	0.835	3.97	0.835	ND	U	0.197	3.97	0.020	ND	U	0.219	3.97	0.022	ND	U	0.193	3.97	0.019	1.68	BJK	0.506	3.97	0.017
SYC14-TB Rep 4	0.325	ND	U	0.103	0.649	0.103	ND	U	0.0769	3.25	0.0769	0.0805	JK	0.0158	3.25	0.008	0.0750	J	0.0168	3.25	0.008	0.0928	BJK	0.0151	3.25	0.009	0.892	BJ	0.0120	3.25	0.009
SYC14-TB Rep 5	0.502	ND	U	0.0892	0.696	0.089	0.247	JK	0.0962	3.48	0.247	ND	U	0.0262	3.48	0.003	ND	U	0.0269	3.48	0.003	ND	U	0.0247	3.48	0.002	1.04	BJK	0.0320	3.48	0.010
SYC14-TB Comp Mean ¹	1.32	0.640					0.383					0.125					0.137					0.126					1.02				
% of reference tissue	363	530					407					317					262					276					137				
SYC14-REF Rep 1	0.380	ND	U	0.139	0.774	0.139	ND	U	0.0717	3.87	0.072	ND	U	0.0242	3.87	0.002	ND	U	0.0248	3.87	0.002	ND	U	0.0228	3.87	0.002	0.826	BJ	0.0140	3.87	0.008
SYC14-REF Rep 2	0.446	ND	U	0.142	0.692	0.142	ND	U	0.121	3.46	0.121	ND	U	0.0502	3.46	0.005	ND	U	0.0517	3.46	0.005	ND	U	0.0472	3.46	0.005	0.709	BJK	0.0114	3.46	0.007
SYC14-REF Rep 3	0.366	ND	U	0.0963	0.747	0.096	ND	U	0.115	3.74	0.115	ND	U	0.0527	3.74	0.005	0.113	JK	0.0541	3.74	0.011	0.0919	BJ	0.0497	3.74	0.009	0.824	BJ	0.0633	3.74	0.008
SYC14-REF Rep 4	0.344	ND	U	0.145	0.725	0.145	ND	U	0.0875	3.63	0.088	ND	U	0.0380	3.63	0.004	ND	U	0.0392	3.63	0.004	ND	U	0.0359	3.63	0.004	0.612	BJK	0.0314	3.63	0.006
SYC14-REF Rep 5	0.29	ND	U	0.0807	0.705	0.081	ND	U	0.0746	3.53	0.075	ND	U	0.0318	3.53	0.003	ND	U	0.0326	3.53	0.003	ND	U	0.0299	3.53	0.003	0.764	BJ	0.0319	3.53	0.008
SYC14-REF Mean ¹	0.37	0.121					0.0940					0.0394					0.0523					0.0455					0.747				
Pretest Tissue Rep 1	1.06	ND	U	0.474	0.668	0.474	ND	U	0.291	3.34	0.291	ND	U	0.140	3.34	0.014	ND	U	0.154	3.34	0.015	0.217	BJK	0.136	3.34	0.022	1.93	BJK	0.262	3.34	0.019
Pretest Tissue Rep 2	1.97	ND	U	1.12	1.12	1.12	ND	U	0.524	3.19	0.524	ND	U	0.125	3.19	0.013	ND	U	0.138	3.19	0.014	ND	U	0.122	3.19	0.012	1.77	BJ	0.150	3.19	0.018
Pretest Tissue Rep 3	1.57	ND	U	0.904	0.904	0.904	ND	U	0.294	3.01	0.294	ND	U	0.227	3.01	0.023	ND	U	0.255	3.01	0.026	ND	U	0.224	3.01	0.022	1.72	BJ	0.0803	3.01	0.017
Pretest Mean ¹	1.54	0.83					0.37					0.16					0.18					0.19					1.81				
Toxic Equivalency Factor (TEF)	--	1					1					0.1					0.1					0.1					0.01				
FDA Action Limits ²	x	x					x					x					x					x					x				
Eco. Effects Threshold ²	x	x					x					x					x					x					x				
S. Atlantic Bight Background ²	0.18-0.44	x					x					x					x					x					x				

TABLE 39
Analytical Results for Wet Weight Dioxins and Furans in *Neanthes virens* tissues

Sample-Replicate #	Octachlorodibenzo-p-dioxin (OCDD)					2,3,7,8-Tetrachlorodibenzofuran (TCDF)					1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)					2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)					1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)				
	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	7.41	B	0.305	7.22	0.002	ND	U	1.43	1.43	0.143	ND	U	0.358	3.61	0.011	ND	U	0.313	3.61	0.094	ND	U	0.179	3.61	0.018	ND	U	0.153	3.61	0.015
SYC14-AC REP 2	5.20	BJK	0.154	6.55	0.002	ND	U	1.16	1.16	0.116	ND	U	0.511	3.28	0.015	ND	U	0.485	3.28	0.146	ND	U	0.0978	3.28	0.010	ND	U	0.0868	3.28	0.009
SYC14-AC REP 3	3.94	BJK	0.350	6.13	0.001	ND	U	0.878	0.878	0.088	ND	U	0.308	3.06	0.009	ND	U	0.269	3.06	0.081	ND	U	0.148	3.06	0.015	ND	U	0.128	3.06	0.013
SYC14-AC REP 4	6.97	BJ	0.313	7.44	0.002	ND	U	1.32	1.32	0.132	ND	U	0.311	3.72	0.009	ND	U	0.282	3.72	0.085	ND	U	0.175	3.72	0.018	ND	U	0.151	3.72	0.015
SYC14-AC REP 5	4.67	BJK	0.165	6.42	0.001	ND	U	1.29	1.29	0.129	ND	U	0.519	3.21	0.016	ND	U	0.483	3.21	0.145	ND	U	0.191	3.21	0.019	ND	U	0.169	3.21	0.017
SYC14-AC Comp Mean ¹	5.64					1.22					0.401					0.366					0.158					0.138				
% of reference tissue	134					196					365					258					362					373				
SYC14-TB Rep 1	5.64	BJ	0.242	7.28	0.002	ND	U	1.37	1.37	0.137	ND	U	0.396	3.64	0.012	ND	U	0.356	3.64	0.107	ND	U	0.230	3.64	0.023	ND	U	0.195	3.64	0.020
SYC14-TB Rep 2	5.84	BJ	0.297	6.85	0.002	ND	U	0.985	0.985	0.099	ND	U	0.391	3.43	0.012	ND	U	0.352	3.43	0.106	ND	U	0.0847	3.43	0.008	ND	U	0.0688	3.43	0.007
SYC14-TB Rep 3	10.2	B	0.424	7.93	0.003	ND	U	1.25	1.25	0.125	ND	U	0.460	3.97	0.014	ND	U	0.426	3.97	0.128	ND	U	0.339	3.97	0.034	ND	U	0.281	3.97	0.028
SYC14-TB Rep 4	5.67	BJ	0.0896	6.49	0.002	0.573	JK	0.0795	0.649	0.057	ND	U	0.0730	3.25	0.002	ND	U	0.0693	3.25	0.021	ND	U	0.0650	3.25	0.007	ND	U	0.0547	3.25	0.005
SYC14-TB Rep 5	6.95	BJ	0.134	6.96	0.002	0.710	--	0.0917	0.696	0.071	ND	U	0.159	3.48	0.005	ND	U	0.147	3.48	0.044	ND	U	0.0512	3.48	0.005	ND	U	0.0441	3.48	0.004
SYC14-TB Comp Mean ¹	6.86					0.978					0.296					0.270					0.154					0.129				
% of reference tissue	163					158					269					190					352					349				
SYC14-REF Rep 1	6.19	BJ	0.0454	7.74	0.002	0.762	J	0.150	0.774	0.076	ND	U	0.174	3.87	0.005	ND	U	0.162	3.87	0.049	ND	U	0.0474	3.87	0.005	ND	U	0.0398	3.87	0.004
SYC14-REF Rep 2	3.31	BJ	0.112	6.92	0.001	0.722	K	0.0820	0.692	0.072	ND	U	0.0969	3.46	0.003	0.234	BJK	0.0957	3.46	0.070	ND	U	0.0294	3.46	0.003	ND	U	0.0248	3.46	0.002
SYC14-REF Rep 3	3.72	BJK	0.0812	7.47	0.001	0.595	J	0.0828	0.747	0.060	ND	U	0.0999	3.74	0.003	ND	U	0.0925	3.74	0.028	ND	U	0.0676	3.74	0.007	ND	U	0.0565	3.74	0.006
SYC14-REF Rep 4	3.89	BJK	0.0937	7.25	0.001	0.456	J	0.0566	0.725	0.046	ND	U	0.0955	3.63	0.003	ND	U	0.0894	3.63	0.027	ND	U	0.0375	3.63	0.004	ND	U	0.0320	3.63	0.003
SYC14-REF Rep 5	3.92	BJ	0.0821	7.05	0.001	0.568	JK	0.0638	0.705	0.057	ND	U	0.0830	3.53	0.002	0.133	BJK	0.0821	3.53	0.040	ND	U	0.0367	3.53	0.004	ND	U	0.0311	3.53	0.003
SYC14-REF Mean ¹	4.21					0.621					0.110					0.142					0.0437					0.0368				
Pretest Tissue Rep 1	14.0	B	0.252	6.68	0.004	ND	U	0.944	0.944	0.094	ND	U	0.204	3.34	0.006	ND	U	0.190	3.34	0.057	ND	U	0.143	3.34	0.014	ND	U	0.125	3.34	0.013
Pretest Tissue Rep 2	13.4	B	0.141	6.39	0.004	ND	U	1.18	1.18	0.118	ND	U	0.287	3.19	0.009	ND	U	0.272	3.19	0.082	ND	U	0.124	3.19	0.012	ND	U	0.108	3.19	0.011
Pretest Tissue Rep 3	14.3	B	0.137	6.02	0.004	ND	U	1.08	1.08	0.108	ND	U	0.358	3.01	0.011	ND	U	0.332	3.01	0.100	ND	U	0.133	3.01	0.013	ND	U	0.115	3.01	0.012
Pretest Mean ¹	13.9					1.07					0.283					0.26					0.133					0.12				
Toxic Equivalency Factor (TEF)	0.0003					0.1					0.03					0.3					0.1					0.1				
FDA Action Limits ²	x					x					x					x					x					x				
Eco. Effects Threshold ²	x					x					x					x					x					x				
S. Atlantic Bight Background ²	x					x					x					x					x					x				

TABLE 39
Analytical Results for Wet Weight Dioxins and Furans in *Neanthes virens* tissues

Sample-Replicate #	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)					2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)					1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)					Octachlorodibenzofuran (OCDF)				
	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ	Result ng/kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	ND	U	0.209	3.61	0.021	ND	U	0.168	3.61	0.017	ND	U	0.190	3.61	0.002	ND	U	0.248	3.61	0.002	ND	U	0.561	7.22	0.00017
SYC14-AC REP 2	ND	U	0.115	3.28	0.012	ND	U	0.0943	3.28	0.009	0.293	BJK	0.156	3.28	0.003	ND	U	0.199	3.28	0.002	ND	U	0.706	6.55	0.00021
SYC14-AC REP 3	ND	U	0.170	3.06	0.017	ND	U	0.130	3.06	0.013	0.278	BJ	0.0652	3.06	0.003	ND	U	0.0863	3.06	0.001	ND	U	0.393	6.13	0.00012
SYC14-AC REP 4	ND	U	0.212	3.72	0.021	ND	U	0.174	3.72	0.017	0.296	BJK	0.0657	3.72	0.003	ND	U	0.0841	3.72	0.001	ND	U	0.694	7.44	0.00021
SYC14-AC REP 5	ND	U	0.223	3.21	0.022	ND	U	0.181	3.21	0.018	ND	U	0.0782	3.21	0.001	ND	U	0.107	3.21	0.001	1.24	BJ	0.503	6.42	0.00037
SYC14-AC Comp Mean ¹	0.186					0.149					0.227					0.145					0.719				
% of reference tissue	376					345					98					356					241				
SYC14-TB Rep 1	ND	U	0.255	3.64	0.026	ND	U	0.213	3.64	0.021	0.503	BJ	0.0778	3.64	0.005	ND	U	0.0965	3.64	0.001	ND	U	0.641	7.28	0.00019
SYC14-TB Rep 2	ND	U	0.0998	3.43	0.010	ND	U	0.0787	3.43	0.008	0.165	BJK	0.0843	3.43	0.002	ND	U	0.115	3.43	0.001	ND	U	0.388	6.85	0.00012
SYC14-TB Rep 3	ND	U	0.375	3.97	0.038	ND	U	0.279	3.97	0.028	ND	U	0.169	3.97	0.002	ND	U	0.227	3.97	0.002	ND	U	0.759	7.93	0.00023
SYC14-TB Rep 4	ND	U	0.0770	3.25	0.008	ND	U	0.0664	3.25	0.007	0.210	BJ	0.0316	3.25	0.002	ND	U	0.0424	3.25	0.000	ND	U	0.131	6.49	0.00004
SYC14-TB Rep 5	ND	U	0.0572	3.48	0.006	ND	U	0.0514	3.48	0.005	0.352	BJP	0.0249	3.48	0.004	0.117	BJK	0.0319	3.48	0.001	0.527	BJK	0.144	6.96	0.00016
SYC14-TB Comp Mean ¹	0.173					0.138					0.280					0.120					0.489				
% of reference tissue	350					318					121					294					164				
SYC14-REF Rep 1	ND	U	0.0531	3.87	0.005	ND	U	0.0465	3.87	0.005	0.186	BJ	0.0301	3.87	0.002	0.0816	BJ	0.0384	3.87	0.001	0.459	BJK	0.137	7.74	0.00014
SYC14-REF Rep 2	ND	U	0.0348	3.46	0.003	ND	U	0.0313	3.46	0.003	0.262	BJ	0.0306	3.46	0.003	ND	U	0.0431	3.46	0.000	ND	U	0.110	6.92	0.00003
SYC14-REF Rep 3	ND	U	0.0754	3.74	0.008	ND	U	0.0636	3.74	0.006	0.236	BJK	0.00733	3.74	0.002	ND	U	0.0101	3.74	0.000	0.377	BJ	0.136	7.47	0.00011
SYC14-REF Rep 4	ND	U	0.0431	3.63	0.004	ND	U	0.0382	3.63	0.004	0.245	BJK	0.0256	3.63	0.002	ND	U	0.0356	3.63	0.000	ND	U	0.167	7.25	0.00005
SYC14-REF Rep 5	ND	U	0.0407	3.53	0.004	ND	U	0.0367	3.53	0.004	0.231	BJ	0.0246	3.53	0.002	ND	U	0.0333	3.53	0.000	0.376	BJ	0.0965	7.05	0.00011
SYC14-REF Mean ¹	0.0494					0.0433					0.232					0.0407					0.298				
Pretest Tissue Rep 1	ND	U	0.170	3.34	0.017	ND	U	0.144	3.34	0.014	0.718	BJK	0.108	3.34	0.007	ND	U	0.144	3.34	0.001	ND	U	0.522	6.68	0.00016
Pretest Tissue Rep 2	ND	U	0.140	3.19	0.014	ND	U	0.127	3.19	0.013	0.939	BJ	0.0881	3.19	0.009	ND	U	0.113	3.19	0.001	0.857	BJK	0.367	6.39	0.00026
Pretest Tissue Rep 3	ND	U	0.148	3.01	0.015	ND	U	0.126	3.01	0.013	1.01	BJK	0.0591	3.01	0.010	ND	U	0.0774	3.01	0.001	1.57	BJK	0.651	6.02	0.00047
Pretest Mean ¹	0.15					0.132					0.889					0.111					0.983				
Toxic Equivalency Factor (TEF)	0.1					0.1					0.01					0.01					0.0003				
FDA Action Limits ²	x					x					x					x					x				
Eco. Effects Threshold ²	x					x					x					x					x				
S. Atlantic Bight Background ²	x					x					x					x					x				

TABLE 39
Analytical Results for Wet Weight Dioxins and Furans in *Neanthes virens* tissues

Analyte:	Total Tetra-Dioxins				Total Tetra-Furans				Total Penta-Dioxins				Total Penta-Furans				Total Hexa-Dioxins				Total Hexa-Furans				Total Hepta-Dioxins				Total Hepta-Furans							
	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL	Result ng/kg	Qualifier	MDL	MRL				
Sample-Replicate #																																				
SYC14-AC REP 1	ND	U	1.14	1.14	ND	U	1.43	1.43	ND	U	0.562	3.61	ND	U	0.445	3.61	ND	U	0.191	3.61	ND	U	0.175	3.61	3.00	J	0.0999	3.61	ND	U	0.217	3.61				
SYC14-AC REP 2	ND	U	0.886	0.886	ND	U	1.16	1.16	ND	U	0.475	3.28	ND	U	0.386	3.28	ND	U	0.211	3.28	0.450	J	0.0976	3.28	ND	U	0.220	3.28	ND	U	0.176	3.28				
SYC14-AC REP 3	ND	U	0.828	0.828	ND	U	0.878	0.878	ND	U	0.372	3.06	ND	U	0.522	3.06	ND	U	0.259	3.06	ND	U	0.142	3.06	ND	U	0.225	3.06	0.278	J	0.0750	3.06				
SYC14-AC REP 4	ND	U	0.809	0.809	ND	U	1.32	1.32	ND	U	0.530	3.72	ND	U	0.602	3.72	0.858	J	0.236	3.72	ND	U	0.176	3.72	ND	U	0.210	3.72	ND	U	0.0743	3.72				
SYC14-AC REP 5	ND	U	0.674	0.674	ND	U	1.29	1.29	ND	U	0.309	3.21	ND	U	0.367	3.21	ND	U	0.0802	3.21	ND	U	0.189	3.21	ND	U	0.239	3.21	0.167	J	0.0913	3.21				
SYC14-AC Comp Mean¹	0.867				1.22				0.450				0.464				0.320				0.226				0.779				0.182							
% of reference tissue	719				310				479				175				106				289				47				65							
SYC14-TB Rep 1	ND	U	0.846	0.846	ND	U	1.37	1.37	ND	U	0.403	3.64	ND	U	0.361	3.64	2.40	J	0.199	3.64	ND	U	0.221	3.64	ND	U	0.223	3.64	0.503	J	0.0868	3.64				
SYC14-TB Rep 2	ND	U	1.12	1.12	ND	U	0.985	0.985	ND	U	0.352	3.43	ND	U	0.504	3.43	ND	U	0.134	3.43	0.244	J	0.0817	3.43	ND	U	0.154	3.43	0.294	J	0.0983	3.43				
SYC14-TB Rep 3	ND	U	1.04	1.04	ND	U	1.25	1.25	ND	U	0.835	3.97	ND	U	0.554	3.97	ND	U	0.203	3.97	ND	U	0.313	3.97	2.73	J	0.506	3.97	ND	U	0.196	3.97				
SYC14-TB Rep 4	ND	U	0.103	0.649	0.255	J	0.0795	0.649	0.613	J	0.0769	3.25	ND	U	0.0398	3.25	1.65	J	0.0159	3.25	ND	U	0.0648	3.25	3.11	J	0.0120	3.25	0.210	J	0.0364	3.25				
SYC14-TB Rep 5	ND	U	0.0892	0.696	0.710	--	0.0917	0.696	ND	U	0.0962	3.48	0.420	J	0.0610	3.48	2.56	J	0.0259	3.48	ND	U	0.0505	3.48	2.87	J	0.0320	3.48	0.666	J	0.0281	3.48				
SYC14-TB Comp Mean¹	0.640				0.914				0.460				0.376				1.39				0.179				1.82				0.374							
% of reference tissue	530				233				489				141				460				228				109				132							
SYC14-REF Rep 1	ND	U	0.139	0.774	0.762	J	0.150	0.774	ND	U	0.0717	3.87	ND	U	0.0658	3.87	ND	U	0.0239	3.87	ND	U	0.0462	3.87	2.26	J	0.0140	3.87	0.267	J	0.0338	3.87				
SYC14-REF Rep 2	ND	U	0.142	0.692	ND	U	0.0820	0.692	ND	U	0.121	3.46	0.823	J	0.0857	3.46	0.545	J	0.0497	3.46	0.207	J	0.0297	3.46	1.01	J	0.0114	3.46	0.444	J	0.0360	3.46				
SYC14-REF Rep 3	ND	U	0.0963	0.747	0.595	J	0.0828	0.747	ND	U	0.115	3.74	ND	U	0.0609	3.74	0.0919	J	0.0521	3.74	ND	U	0.0651	3.74	2.00	J	0.0633	3.74	0.238	J	0.00852	3.74				
SYC14-REF Rep 4	ND	U	0.145	0.725	0.456	J	0.0566	0.725	ND	U	0.0875	3.63	0.313	J	0.0775	3.63	0.470	J	0.0376	3.63	ND	U	0.0372	3.63	1.25	J	0.0314	3.63	ND	U	0.0301	3.63				
SYC14-REF Rep 5	ND	U	0.0807	0.705	ND	U	0.0638	0.705	ND	U	0.0746	3.53	ND	U	0.0659	3.53	0.381	J	0.0314	3.53	ND	U	0.0359	3.53	1.83	J	0.0319	3.53	0.432	J	0.0285	3.53				
SYC14-REF Mean¹	0.121				0.392				0.0940				0.2657				0.302				0.0783				1.67				0.282							
Pretest Tissue Rep 1	ND	U	0.474	0.668	ND	U	0.944	0.944	ND	U	0.291	3.34	ND	U	0.259	3.34	ND	U	0.143	3.34	ND	U	0.144	3.34	2.28	J	0.262	3.34	ND	U	0.124	3.34				
Pretest Tissue Rep 2	ND	U	1.12	1.12	ND	U	1.18	1.18	ND	U	0.524	3.19	ND	U	0.298	3.19	ND	U	0.128	3.19	ND	U	0.124	3.19	4.56	--	0.150	3.19	0.939	J	0.0992	3.19				
Pretest Tissue Rep 3	ND	U	0.904	0.904	ND	U	1.08	1.08	ND	U	0.294	3.01	ND	U	0.416	3.01	ND	U	0.235	3.01	ND	U	0.129	3.01	4.18	--	0.0803	3.01	ND	U	0.0676	3.01				
Pretest Mean¹	0.833				1.07				0.370				0.324				0.169				0.1				3.67				0.377							
Toxic Equivalency Factor (TEF)	x				x				x				x				x				x				x				x							
FDA Action Limits²	x				x				x				x				x				x				x				x							
Eco. Effects Threshold²	x				x				x				x				x				x				x				x							
S. Atlantic Bight Background²	x				x				x				x				x				x				x				x							

Data qualifiers and acronyms are defined at the front of the tables section.

¹ = Refer to Section 2.6.4 for an explanation of how the mean was calculated.

² Values and steady state factors are from Appendix H of the SERIM (EPA/USACE 2008)

Source: ALS Environmental

Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 40
Analytical Results for Wet Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	Dioxin/Furan TEQ (ng/kg)	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)					1,2,3,7,8-Pentachlorodibenzo-p- dioxin (PeCDD)					1,2,3,4,7,8-Hexachlorodibenzo-p- dioxin (HxCDD)					1,2,3,6,7,8-Hexachlorodibenzo-p- dioxin (HxCDD)					1,2,3,7,8,9-Hexachlorodibenzo-p- dioxin (HxCDD)					1,2,3,4,6,7,8-Heptachlorodibenzo-p- dioxin (HpCDD)				
		Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ
Sample-Replicate #																															
SYC14-AC REP 1	1.04	ND	U	0.493	0.493	0.493	ND	U	0.249	2.45	0.249	ND	U	0.212	2.45	0.021	ND	U	0.229	2.45	0.023	ND	U	0.205	2.45	0.021	1.40	BJK	0.330	2.45	0.014
SYC14-AC REP 2	0.897	ND	U	0.454	0.494	0.454	ND	U	0.208	2.47	0.208	ND	U	0.0974	2.47	0.010	ND	U	0.104	2.47	0.010	ND	U	0.0931	2.47	0.009	1.48	BJK	0.231	2.47	0.015
SYC14-AC REP 3	1.00	ND	U	0.481	0.481	0.481	ND	U	0.297	2.41	0.297	ND	U	0.0933	2.41	0.009	ND	U	0.102	2.41	0.010	ND	U	0.0906	2.41	0.009	0.935	BJ	0.222	2.41	0.009
SYC14-AC REP 4	1.71	ND	U	0.601	0.601	0.601	ND	U	0.678	2.47	0.678	ND	U	0.333	2.47	0.033	ND	U	0.338	2.47	0.034	ND	U	0.311	2.47	0.031	3.01	BK	0.689	2.47	0.030
SYC14-AC REP 5	0.289	ND	U	0.110	0.499	0.110	ND	U	0.0616	2.50	0.062	ND	U	0.0488	2.50	0.005	ND	U	0.0557	2.50	0.006	ND	U	0.0484	2.50	0.005	1.30	BJ	0.0168	2.50	0.013
SYC14-AC Comp Mean ¹	0.987	0.428					0.299					0.157					0.166					0.150					1.63				
% of reference tissue	86	60					143					123					115					119					204				
SYC14-TB Rep 1	0.376	ND	U	0.134	0.493	0.134	ND	U	0.0686	2.46	0.069	0.166	JK	0.0713	2.46	0.017	ND	U	0.0811	2.46	0.008	0.206	BJ	0.0706	2.46	0.021	2.68	B	0.0734	2.46	0.027
SYC14-TB Rep 2	2.87	ND	U	0.173	0.492	0.173	1.38	JK	0.0868	2.46	1.380	1.08	JK	0.0583	2.46	0.108	1.27	JK	0.0663	2.46	0.127	1.24	BJ	0.0577	2.46	0.124	3.26	B	0.0935	2.46	0.033
SYC14-TB Rep 3	1.90	ND	U	0.446	0.494	0.446	0.759	JK	0.285	2.47	0.759	0.523	JK	0.0497	2.47	0.052	0.851	JK	0.0545	2.47	0.085	0.682	BJK	0.0484	2.47	0.068	2.94	B	0.242	2.47	0.029
SYC14-TB Rep 4	5.43	0.91	K	0.463	0.492	0.910	2.23	J	0.255	2.46	2.230	1.97	JK	0.0607	2.46	0.197	2.23	J	0.0691	2.46	0.223	1.88	BJ	0.0602	2.46	0.188	3.85	B	0.132	2.46	0.039
SYC14-TB Rep 5	1.01	ND	U	0.542	0.542	0.542	ND	U	0.313	2.49	0.313	ND	U	0.0646	2.49	0.006	ND	U	0.0740	2.49	0.007	ND	U	0.0642	2.49	0.006	1.93	BJK	0.156	2.49	0.019
SYC14-TB Comp Mean ¹	2.32	0.441					0.950					0.761					0.901					0.814					2.93				
% of reference tissue	202	62					455					594					623					645					367				
SYC14-REF Rep 1	0.812	ND	U	0.526	0.526	0.526	ND	U	0.142	2.46	0.142	ND	U	0.104	2.46	0.010	ND	U	0.114	2.46	0.011	ND	U	0.101	2.46	0.010	0.600	BJ	0.169	2.46	0.006
SYC14-REF Rep 2	1.54	ND	U	0.977	0.977	0.977	ND	U	0.280	2.47	0.280	ND	U	0.156	2.47	0.016	ND	U	0.184	2.47	0.018	ND	U	0.158	2.47	0.016	0.935	BJK	0.124	2.47	0.009
SYC14-REF Rep 3	1.34	ND	U	0.916	0.916	0.916	ND	U	0.181	2.49	0.181	ND	U	0.106	2.49	0.011	ND	U	0.119	2.49	0.012	ND	U	0.104	2.49	0.010	0.863	BJK	0.212	2.49	0.009
SYC14-REF Rep 4	0.985	ND	U	0.508	0.508	0.508	ND	U	0.228	2.49	0.228	ND	U	0.125	2.49	0.013	ND	U	0.135	2.49	0.014	ND	U	0.120	2.49	0.012	0.867	BJ	0.146	2.49	0.009
SYC14-REF Rep 5	1.06	ND	U	0.652	0.652	0.652	ND	U	0.212	2.50	0.212	ND	U	0.149	2.50	0.015	ND	U	0.171	2.50	0.017	ND	U	0.148	2.50	0.015	0.725	BJK	0.123	2.50	0.007
SYC14-REF Mean ¹	1.148	0.716					0.209					0.128					0.145					0.126					0.798				
Pretest Tissue Rep 1	0.911	ND	U	0.409	0.498	0.409	ND	U	0.284	2.49	0.284	ND	U	0.0928	2.49	0.009	ND	U	0.103	2.49	0.010	ND	U	0.0905	2.49	0.009	ND	U	0.214	2.49	0.002
Pretest Tissue Rep 2	1.00	ND	U	0.471	0.490	0.471	ND	U	0.234	2.45	0.234	ND	U	0.0905	2.45	0.009	ND	U	0.100	2.45	0.010	ND	U	0.0884	2.45	0.009	ND	U	0.192	2.45	0.002
Pretest Tissue Rep 3	1.26	ND	U	0.614	0.614	0.614	ND	U	0.404	2.47	0.404	ND	U	0.101	2.47	0.010	ND	U	0.113	2.47	0.011	ND	U	0.0989	2.47	0.010	0.969	BJK	0.448	2.47	0.010
Pretest Mean ¹	1.058	0.498					0.307					0.0948					0.1053					0.0926					0.46				
Toxic Equivalency Factor (TEF)	--	1.00					1.00					0.10					0.10					0.10					0.01				
FDA Action Limits ²	x	x					x					x					x					x					x				
Eco. Effects Threshold ²	x	x					x					x					x					x					x				
S. Atlantic Bight Background ²	0.32-0.36	x					x					x					x					x					x				

TABLE 40
Analytical Results for Wet Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	Octachlorodibenzo-p-dioxin (OCDD)					2,3,7,8-Tetrachlorodibenzofuran (TCDF)					1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)					2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)					1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)									
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ					
Sample-Replicate #																																			
SYC14-AC REP 1	11.2	--	0.186	4.90	0.003	ND	U	0.877	0.877	0.088	ND	U	0.277	2.45	0.008	ND	U	0.269	2.45	0.081	ND	U	0.0910	2.45	0.009	ND	U	0.0787	2.45	0.008					
SYC14-AC REP 2	23.6	--	0.442	4.94	0.007	ND	U	0.684	0.684	0.068	ND	U	0.245	2.47	0.007	ND	U	0.219	2.47	0.066	ND	U	0.0908	2.47	0.009	ND	U	0.0776	2.47	0.008					
SYC14-AC REP 3	15.1	--	0.218	4.81	0.005	ND	U	0.670	0.670	0.067	ND	U	0.255	2.41	0.008	ND	U	0.236	2.41	0.071	ND	U	0.0665	2.41	0.007	ND	U	0.0562	2.41	0.006					
SYC14-AC REP 4	30.0	K	0.434	4.93	0.009	ND	U	0.698	0.698	0.070	ND	U	0.529	2.47	0.016	ND	U	0.438	2.47	0.131	ND	U	0.189	2.47	0.019	ND	U	0.163	2.47	0.016					
SYC14-AC REP 5	16.6	--	0.0789	4.99	0.005	ND	U	0.145	0.499	0.015	ND	U	0.127	2.50	0.004	ND	U	0.121	2.50	0.036	0.132	JK	0.0231	2.50	0.013	ND	U	0.0200	2.50	0.002					
SYC14-AC Comp Mean ¹	19.3					0.615					0.287					0.257					0.114					0.079									
% of reference tissue	320					86					128					128					133					108									
SYC14-TB Rep 1	21.2	--	0.0737	4.93	0.006	ND	U	0.148	0.493	0.015	ND	U	0.0702	2.46	0.002	ND	U	0.0663	2.46	0.020	ND	U	0.0762	2.46	0.008	0.160	JK	0.0656	2.46	0.016					
SYC14-TB Rep 2	26.1	--	0.0842	4.92	0.008	0.450	J	0.134	0.492	0.045	1.25	J	0.0842	2.46	0.038	1.21	J	0.0777	2.46	0.363	1.12	JK	0.0384	2.46	0.112	1.11	J	0.0337	2.46	0.111					
SYC14-TB Rep 3	25.5	--	0.143	4.94	0.008	ND	U	0.543	0.543	0.054	0.795	J	0.185	2.47	0.024	0.408	JK	0.172	2.47	0.122	0.418	JK	0.0794	2.47	0.042	0.537	J	0.0691	2.47	0.054					
SYC14-TB Rep 4	22.9	--	0.242	4.92	0.007	ND	U	0.552	0.552	0.055	2.15	JK	0.127	2.46	0.065	2.29	JK	0.113	2.46	0.687	2.17	J	0.0816	2.46	0.217	1.56	JK	0.0708	2.46	0.156					
SYC14-TB Rep 5	21.1	--	0.270	4.97	0.006	ND	U	0.439	0.497	0.044	ND	U	0.148	2.49	0.004	ND	U	0.135	2.49	0.041	ND	U	0.0550	2.49	0.006	ND	U	0.0470	2.49	0.005					
SYC14-TB Comp Mean ¹	23.4					0.426					0.883					0.822					0.768					0.683									
% of reference tissue	388					60					394					409					895					932									
SYC14-REF Rep 1	6.77	--	0.162	4.91	0.002	ND	U	0.340	0.491	0.034	ND	U	0.141	2.46	0.004	ND	U	0.130	2.46	0.039	ND	U	0.0672	2.46	0.007	ND	U	0.0572	2.46	0.006					
SYC14-REF Rep 2	4.55	J	0.315	4.93	0.001	ND	U	0.824	0.824	0.082	ND	U	0.288	2.47	0.009	ND	U	0.254	2.47	0.076	ND	U	0.141	2.47	0.014	ND	U	0.123	2.47	0.012					
SYC14-REF Rep 3	6.48	--	0.196	4.98	0.002	ND	U	0.861	0.861	0.086	ND	U	0.282	2.49	0.008	ND	U	0.260	2.49	0.078	ND	U	0.0575	2.49	0.006	ND	U	0.0488	2.49	0.005					
SYC14-REF Rep 4	6.18	--	0.176	4.98	0.002	ND	U	0.872	0.872	0.087	ND	U	0.233	2.49	0.007	ND	U	0.199	2.49	0.060	ND	U	0.111	2.49	0.011	ND	U	0.0931	2.49	0.009					
SYC14-REF Rep 5	6.14	--	0.0785	4.99	0.002	ND	U	0.659	0.659	0.066	ND	U	0.177	2.50	0.005	ND	U	0.162	2.50	0.049	ND	U	0.0525	2.50	0.005	ND	U	0.0443	2.50	0.004					
SYC14-REF Mean ¹	6.0					0.711					0.224					0.201					0.086					0.0733									
Pretest Tissue Rep 1	1.54	JK	0.309	4.98	0.000	ND	U	0.904	0.904	0.090	ND	U	0.210	2.49	0.006	ND	U	0.203	2.49	0.061	ND	U	0.0643	2.49	0.006	ND	U	0.0557	2.49	0.006					
Pretest Tissue Rep 2	11.9	--	0.219	4.90	0.004	ND	U	0.950	0.950	0.095	ND	U	0.402	2.45	0.012	ND	U	0.397	2.45	0.119	ND	U	0.0735	2.45	0.007	ND	U	0.0601	2.45	0.006					
Pretest Tissue Rep 3	1.64	JK	0.503	4.95	0.000	ND	U	0.788	0.788	0.079	ND	U	0.239	2.47	0.007	ND	U	0.227	2.47	0.068	ND	U	0.102	2.47	0.010	ND	U	0.0913	2.47	0.009					
Pretest Mean ¹	5.03					0.8807					0.284					0.276					0.080					0.0690									
Toxic Equivalency Factor (TEF)	0.0003					0.10					0.03					0.30					0.10					0.10									
FDA Action Limits ²	x					x					x					x					x					x									
Eco. Effects Threshold ²	x					x					x					x					x					x									
S. Atlantic Bight Background ²	x					x					x					x					x					x									

TABLE 40
Analytical Results for Wet Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)					2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)					1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)					Octachlorodibenzofuran (OCDF)									
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ					
Sample-Replicate #																														
SYC14-AC REP 1	ND	U	0.129	2.45	0.013	ND	U	0.101	2.45	0.010	ND	U	0.126	2.45	0.001	ND	U	0.158	2.45	0.002	ND	U	0.506	4.90	0.000					
SYC14-AC REP 2	ND	U	0.116	2.47	0.012	ND	U	0.0895	2.47	0.009	0.300	BJK	0.106	2.47	0.003	ND	U	0.139	2.47	0.001	ND	U	0.420	4.94	0.000					
SYC14-AC REP 3	ND	U	0.0844	2.41	0.008	ND	U	0.0638	2.41	0.006	ND	U	0.112	2.41	0.001	ND	U	0.150	2.41	0.002	0.478	JK	0.415	4.81	0.000					
SYC14-AC REP 4	ND	U	0.247	2.47	0.025	ND	U	0.152	2.47	0.015	ND	U	0.165	2.47	0.002	ND	U	0.205	2.47	0.002	ND	U	0.900	4.93	0.000					
SYC14-AC REP 5	ND	U	0.0326	2.50	0.003	0.0756	JK	0.0223	2.50	0.008	0.247	BJK	0.0390	2.50	0.002	ND	U	0.0633	2.50	0.001	0.904	JK	0.231	4.99	0.000					
SYC14-AC Comp Mean ¹	0.122					0.096					0.190					0.143					0.642									
% of reference tissue	122					119					289					205					151									
SYC14-TB Rep 1	ND	U	0.0956	2.46	0.010	0.215	J	0.0747	2.46	0.022	0.272	BJK	0.0305	2.46	0.003	ND	U	0.0483	2.46	0.000	0.653	JK	0.192	4.93	0.000					
SYC14-TB Rep 2	1.06	J	0.0495	2.46	0.106	1.18	JK	0.0388	2.46	0.118	1.26	BJ	0.0349	2.46	0.013	0.978	BJ	0.0498	2.46	0.010	2.53	J	0.162	4.92	0.001					
SYC14-TB Rep 3	0.796	JK	0.0899	2.47	0.080	0.592	JK	0.0764	2.47	0.059	1.02	BJK	0.0286	2.47	0.010	0.483	BJK	0.0381	2.47	0.005	1.60	JK	0.266	4.94	0.000					
SYC14-TB Rep 4	2.09	JK	0.0893	2.46	0.209	2.07	J	0.0788	2.46	0.207	2.17	BJ	0.0990	2.46	0.022	1.92	BJK	0.135	2.46	0.019	4.16	J	0.436	4.92	0.001					
SYC14-TB Rep 5	ND	U	0.0594	2.49	0.006	ND	U	0.0525	2.49	0.005	0.255	BJK	0.0382	2.49	0.003	ND	U	0.0502	2.49	0.001	ND	U	0.295	4.97	0.000					
SYC14-TB Comp Mean ¹	0.820					0.822					0.995					0.696					1.85									
% of reference tissue	820					1019					1516					997					436									
SYC14-REF Rep 1	ND	U	0.0737	2.46	0.007	ND	U	0.0624	2.46	0.006	ND	U	0.0347	2.46	0.000	ND	U	0.0452	2.46	0.000	ND	U	0.290	4.91	0.000					
SYC14-REF Rep 2	ND	U	0.162	2.47	0.016	ND	U	0.134	2.47	0.013	ND	U	0.0615	2.47	0.001	ND	U	0.0813	2.47	0.001	ND	U	0.357	4.93	0.000					
SYC14-REF Rep 3	ND	U	0.0697	2.49	0.007	ND	U	0.0535	2.49	0.005	ND	U	0.0668	2.49	0.001	ND	U	0.0818	2.49	0.001	ND	U	0.692	4.98	0.000					
SYC14-REF Rep 4	ND	U	0.132	2.49	0.013	ND	U	0.103	2.49	0.010	0.139	BJK	0.0890	2.49	0.001	ND	U	0.108	2.49	0.001	ND	U	0.438	4.98	0.000					
SYC14-REF Rep 5	ND	U	0.0629	2.50	0.006	ND	U	0.0504	2.50	0.005	ND	U	0.0263	2.50	0.000	ND	U	0.0328	2.50	0.000	ND	U	0.342	4.99	0.000					
SYC14-REF Mean ¹	0.100					0.0807					0.0657					0.0698					0.424									
Pretest Tissue Rep 1	ND	U	0.0879	2.49	0.009	ND	U	0.0636	2.49	0.006	ND	U	0.0911	2.49	0.001	ND	U	0.131	2.49	0.001	ND	U	0.371	4.98	0.000					
Pretest Tissue Rep 2	ND	U	0.0970	2.45	0.010	ND	U	0.0690	2.45	0.007	0.253	BJK	0.0943	2.45	0.003	ND	U	0.134	2.45	0.001	ND	U	0.419	4.90	0.000					
Pretest Tissue Rep 3	ND	U	0.143	2.47	0.014	ND	U	0.102	2.47	0.010	ND	U	0.231	2.47	0.002	ND	U	0.288	2.47	0.003	ND	U	0.875	4.95	0.000					
Pretest Mean ¹	0.109					0.0782					0.192					0.1843					0.555									
Toxic Equivalency Factor (TEF)	0.10					0.10					0.01					0.01					0.0003									
FDA Action Limits ²	x					x					x					x					x									
Eco. Effects Threshold ²	x					x					x					x					x									
S. Atlantic Bight Background ²	x					x					x					x					x									

TABLE 41

Analytical Results for Dry Weight Dioxins and Furans in *Nereis virens* tissues

Sample-Replicate #	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)					1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)					1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)				
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	ND	U	6.77	6.77	6.770	ND	U	3.35	21.5	3.350	ND	U	1.09	21.5	0.109	ND	U	1.25	21.5	0.125	ND	U	1.08	21.5	0.108	7.73	BJK	0.595	21.5	0.077
SYC14-AC REP 2	ND	U	5.64	5.64	5.640	ND	U	3.03	20.9	3.030	ND	U	1.28	20.9	0.128	ND	U	1.47	20.9	0.147	ND	U	1.28	20.9	0.128	5.27	BJK	1.40	20.9	0.053
SYC14-AC REP 3	ND	U	5.52	5.52	5.520	ND	U	2.48	20.4	2.480	ND	U	1.71	20.4	0.171	ND	U	1.83	20.4	0.183	ND	U	1.65	20.4	0.165	5.47	BJK	1.50	20.4	0.055
SYC14-AC REP 4	ND	U	5.43	5.43	5.430	ND	U	3.56	25.0	3.560	ND	U	1.55	25.0	0.155	ND	U	1.70	25.0	0.170	ND	U	1.51	25.0	0.151	9.06	BJK	1.41	25.0	0.091
SYC14-AC REP 5	ND	U	4.35	4.35	4.350	ND	U	2.00	20.7	2.000	ND	U	0.509	20.7	0.051	ND	U	0.551	20.7	0.055	ND	U	0.492	20.7	0.049	5.00	BJK	1.54	20.7	0.050
SYC14-TB Rep 1	ND	U	5.39	5.39	5.390	ND	U	2.57	23.2	2.570	ND	U	1.21	23.2	0.121	ND	U	1.40	23.2	0.140	ND	U	1.21	23.2	0.121	5.12	BJK	1.42	23.2	0.051
SYC14-TB Rep 2	ND	U	7.32	7.32	7.320	ND	U	2.32	22.5	2.320	ND	U	0.853	22.5	0.085	ND	U	0.944	22.5	0.094	ND	U	0.833	22.5	0.083	4.64	BJK	1.01	22.5	0.046
SYC14-TB Rep 3	ND	U	6.88	6.88	6.880	ND	U	5.57	26.4	5.570	ND	U	1.32	26.4	0.132	ND	U	1.46	26.4	0.146	ND	U	1.29	26.4	0.129	11.2	BJK	3.38	26.4	0.112
SYC14-TB Rep 4	ND	U	0.665	4.19	0.665	ND	U	0.496	20.9	0.496	0.519	JK	0.102	20.9	0.052	0.484	J	0.109	20.9	0.048	0.599	BJK	0.0972	20.9	0.060	5.76	BJ	0.0771	20.9	0.058
SYC14-TB Rep 5	ND	U	0.587	4.58	0.587	1.63	JK	0.633	22.9	1.630	ND	U	0.173	22.9	0.017	ND	U	0.177	22.9	0.018	ND	U	0.162	22.9	0.016	6.82	BJK	0.211	22.9	0.068
SYC14-REF Rep 1	ND	U	0.854	4.78	0.854	ND	U	0.443	23.9	0.443	ND	U	0.150	23.9	0.015	ND	U	0.153	23.9	0.015	ND	U	0.141	23.9	0.014	5.10	BJ	0.0860	23.9	0.051
SYC14-REF Rep 2	ND	U	0.926	4.52	0.926	ND	U	0.786	22.6	0.786	ND	U	0.328	22.6	0.033	ND	U	0.338	22.6	0.034	ND	U	0.309	22.6	0.031	4.64	BJK	0.0742	22.6	0.046
SYC14-REF Rep 3	ND	U	0.625	4.85	0.625	ND	U	0.745	24.3	0.745	ND	U	0.342	24.3	0.034	0.736	JK	0.352	24.3	0.074	0.597	BJ	0.323	24.3	0.060	5.35	BJ	0.411	24.3	0.054
SYC14-REF Rep 4	ND	U	0.953	4.77	0.953	ND	U	0.576	23.9	0.576	ND	U	0.250	23.9	0.025	ND	U	0.258	23.9	0.026	ND	U	0.236	23.9	0.024	4.02	BJK	0.207	23.9	0.040
SYC14-REF Rep 5	ND	U	0.531	4.64	0.531	ND	U	0.491	23.2	0.491	ND	U	0.209	23.2	0.021	ND	U	0.215	23.2	0.022	ND	U	0.197	23.2	0.020	5.03	BJ	0.210	23.2	0.050
Pretest Tissue - 1	ND	U	3.04	4.28	3.040	ND	U	1.87	21.4	1.870	ND	U	0.892	21.4	0.089	ND	U	0.986	21.4	0.099	1.39	BJK	0.871	21.4	0.139	12.3	BJK	1.68	21.4	0.123
Pretest Tissue - 2	ND	U	7.03	7.03	7.030	ND	U	3.30	20.1	3.300	ND	U	0.783	20.1	0.078	ND	U	0.865	20.1	0.087	ND	U	0.764	20.1	0.076	11.1	BJ	0.943	20.1	0.111
Pretest Tissue - 3	ND	U	5.51	5.51	5.510	ND	U	1.80	18.4	1.800	ND	U	1.39	18.4	0.139	ND	U	1.56	18.4	0.156	ND	U	1.37	18.4	0.137	10.5	BJ	0.490	18.4	0.105
Toxic Equivalency Factor (TEF)	1.00					1.00					0.10					0.10					0.10					0.01				

TABLE 41
Analytical Results for Dry Weight Dioxins and Furans in *Nereis virens* tissues

Sample-Replicate #	Analyte: Octachlorodibenzo-p-dioxin (OCDD)					2,3,7,8-Tetrachlorodibenzofuran (TCDF)					1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)					2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)					1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)				
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	44.1	B	1.82	42.9	0.013	ND	U	8.47	8.47	0.847	ND	U	2.13	21.5	0.064	ND	U	1.87	21.5	0.561	ND	U	1.06	21.5	0.106	ND	U	0.911	21.5	0.091
SYC14-AC REP 2	33.1	BJK	0.980	41.7	0.010	ND	U	7.36	7.36	0.736	ND	U	3.25	20.9	0.098	ND	U	3.09	20.9	0.927	ND	U	0.623	20.9	0.062	ND	U	0.553	20.9	0.055
SYC14-AC REP 3	26.3	BJK	2.34	40.8	0.008	ND	U	5.85	5.85	0.585	ND	U	2.06	20.4	0.062	ND	U	1.80	20.4	0.540	ND	U	0.984	20.4	0.098	ND	U	0.850	20.4	0.085
SYC14-AC REP 4	46.8	BJ	2.10	49.9	0.014	ND	U	8.85	8.85	0.885	ND	U	2.09	25.0	0.063	ND	U	1.89	25.0	0.567	ND	U	1.17	25.0	0.117	ND	U	1.02	25.0	0.102
SYC14-AC REP 5	30.1	BJK	1.07	41.4	0.009	ND	U	8.27	8.27	0.827	ND	U	3.35	20.7	0.101	ND	U	3.12	20.7	0.936	ND	U	1.24	20.7	0.124	ND	U	1.09	20.7	0.109
SYC14-TB Rep 1	35.9	BJ	1.54	46.3	0.011	ND	U	8.69	8.69	0.869	ND	U	2.52	23.2	0.076	ND	U	2.27	23.2	0.681	ND	U	1.47	23.2	0.147	ND	U	1.24	23.2	0.124
SYC14-TB Rep 2	38.4	BJ	1.96	45.1	0.012	ND	U	6.48	6.48	0.648	ND	U	2.57	22.5	0.077	ND	U	2.32	22.5	0.696	ND	U	0.558	22.5	0.056	ND	U	0.453	22.5	0.045
SYC14-TB Rep 3	68.2	B	2.83	52.9	0.020	ND	U	8.29	8.29	0.829	ND	U	3.07	26.4	0.092	ND	U	2.84	26.4	0.852	ND	U	2.26	26.4	0.226	ND	U	1.88	26.4	0.188
SYC14-TB Rep 4	36.6	BJ	0.578	41.9	0.011	3.70	JK	0.513	4.19	0.370	ND	U	0.471	20.9	0.014	ND	U	0.447	20.9	0.134	ND	U	0.419	20.9	0.042	ND	U	0.353	20.9	0.035
SYC14-TB Rep 5	45.7	BJ	0.876	45.8	0.014	4.67	C	0.604	4.58	0.467	ND	U	1.05	22.9	0.032	ND	U	0.966	22.9	0.290	ND	U	0.337	22.9	0.034	ND	U	0.291	22.9	0.029
SYC14-REF Rep 1	38.2	BJ	0.280	47.8	0.011	4.70	J	0.923	4.78	0.470	ND	U	1.08	23.9	0.032	ND	U	0.997	23.9	0.299	ND	U	0.293	23.9	0.029	ND	U	0.246	23.9	0.025
SYC14-REF Rep 2	21.6	BJ	0.730	45.2	0.006	4.72	CK	0.536	4.52	0.472	ND	U	0.634	22.6	0.019	1.53	BJK	0.626	22.6	0.459	ND	U	0.192	22.6	0.019	ND	U	0.162	22.6	0.016
SYC14-REF Rep 3	24.2	BJK	0.527	48.5	0.007	3.86	J	0.538	4.85	0.386	ND	U	0.649	24.3	0.019	ND	U	0.601	24.3	0.180	ND	U	0.439	24.3	0.044	ND	U	0.367	24.3	0.037
SYC14-REF Rep 4	25.6	BJK	0.617	47.7	0.008	3.00	J	0.373	4.77	0.300	ND	U	0.628	23.9	0.019	ND	U	0.588	23.9	0.176	ND	U	0.247	23.9	0.025	ND	U	0.210	23.9	0.021
SYC14-REF Rep 5	25.8	BJ	0.540	46.4	0.008	3.74	JK	0.420	4.64	0.374	ND	U	0.546	23.2	0.016	0.875	BJK	0.540	23.2	0.263	ND	U	0.242	23.2	0.024	ND	U	0.205	23.2	0.021
Pretest Tissue - 1	89.7	B	1.62	42.8	0.027	ND	U	6.05	6.05	0.605	ND	U	1.31	21.4	0.039	ND	U	1.22	21.4	0.366	ND	U	0.914	21.4	0.091	ND	U	0.797	21.4	0.080
Pretest Tissue - 2	84.3	B	0.882	40.2	0.025	ND	U	7.41	7.41	0.741	ND	U	1.80	20.1	0.054	ND	U	1.71	20.1	0.513	ND	U	0.779	20.1	0.078	ND	U	0.674	20.1	0.067
Pretest Tissue - 3	87.1	B	0.836	36.7	0.026	ND	U	6.57	6.57	0.657	ND	U	2.18	18.4	0.065	ND	U	2.03	18.4	0.609	ND	U	0.806	18.4	0.081	ND	U	0.700	18.4	0.070
Toxic Equivalency Factor (TEF)	0.0003					0.10					0.03					0.30					0.10					0.10				

TABLE 41
Analytical Results for Dry Weight Dioxins and Furans in *Nereis virens* tissues

Analyte:	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)					2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)					1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)					Octachlorodibenzofuran (OCDF)									
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ					
Sample-Replicate #																														
SYC14-AC REP 1	ND	U	1.25	21.5	0.125	ND	U	0.997	21.5	0.100	ND	U	1.13	21.5	0.011	ND	U	1.48	21.5	0.015	ND	U	3.34	42.9	0.001					
SYC14-AC REP 2	ND	U	0.732	20.9	0.073	ND	U	0.601	20.9	0.060	1.87	BJK	0.989	20.9	0.019	ND	U	1.27	20.9	0.013	ND	U	4.50	41.7	0.001					
SYC14-AC REP 3	ND	U	1.14	20.4	0.114	ND	U	0.865	20.4	0.087	1.85	BJ	0.435	20.4	0.019	ND	U	0.576	20.4	0.006	ND	U	2.62	40.8	0.001					
SYC14-AC REP 4	ND	U	1.43	25.0	0.143	ND	U	1.17	25.0	0.117	1.99	BJK	0.441	25.0	0.020	ND	U	0.565	25.0	0.006	ND	U	4.66	49.9	0.001					
SYC14-AC REP 5	ND	U	1.44	20.7	0.144	ND	U	1.17	20.7	0.117	ND	U	0.504	20.7	0.005	ND	U	0.688	20.7	0.007	8.03	BJ	3.25	41.4	0.002					
SYC14-TB Rep 1	ND	U	1.63	23.2	0.163	ND	U	1.36	23.2	0.136	3.20	BJ	0.495	23.2	0.032	ND	U	0.615	23.2	0.006	ND	U	4.09	46.3	0.001					
SYC14-TB Rep 2	ND	U	0.657	22.5	0.066	ND	U	0.518	22.5	0.052	1.09	BJK	0.555	22.5	0.011	ND	U	0.753	22.5	0.008	ND	U	2.56	45.1	0.001					
SYC14-TB Rep 3	ND	U	2.50	26.4	0.250	ND	U	1.86	26.4	0.186	ND	U	1.13	26.4	0.011	ND	U	1.51	26.4	0.015	ND	U	5.06	52.9	0.002					
SYC14-TB Rep 4	ND	U	0.497	20.9	0.050	ND	U	0.429	20.9	0.043	1.36	BJ	0.204	20.9	0.014	ND	U	0.274	20.9	0.003	ND	U	0.844	41.9	0.000					
SYC14-TB Rep 5	ND	U	0.377	22.9	0.038	ND	U	0.338	22.9	0.034	2.32	BJP	0.164	22.9	0.023	0.768	BJK	0.210	22.9	0.008	3.47	BJK	0.942	45.8	0.001					
SYC14-REF Rep 1	ND	U	0.328	23.9	0.033	ND	U	0.287	23.9	0.029	1.15	BJ	0.186	23.9	0.012	0.503	BJ	0.237	23.9	0.005	2.84	BJK	0.846	47.8	0.001					
SYC14-REF Rep 2	ND	U	0.228	22.6	0.023	ND	U	0.205	22.6	0.021	1.71	BJ	0.200	22.6	0.017	ND	U	0.282	22.6	0.003	ND	U	0.713	45.2	0.000					
SYC14-REF Rep 3	ND	U	0.490	24.3	0.049	ND	U	0.413	24.3	0.041	1.53	BJK	0.0476	24.3	0.015	ND	U	0.0651	24.3	0.001	2.45	BJ	0.882	48.5	0.001					
SYC14-REF Rep 4	ND	U	0.284	23.9	0.028	ND	U	0.251	23.9	0.025	1.61	BJK	0.168	23.9	0.016	ND	U	0.234	23.9	0.002	ND	U	1.10	47.7	0.000					
SYC14-REF Rep 5	ND	U	0.268	23.2	0.027	ND	U	0.242	23.2	0.024	1.52	BJ	0.162	23.2	0.015	ND	U	0.219	23.2	0.002	2.47	BJ	0.635	46.4	0.001					
Pretest Tissue - 1	ND	U	1.09	21.4	0.109	ND	U	0.917	21.4	0.092	4.60	BJK	0.687	21.4	0.046	ND	U	0.919	21.4	0.009	ND	U	3.35	42.8	0.001					
Pretest Tissue - 2	ND	U	0.879	20.1	0.088	ND	U	0.798	20.1	0.080	5.90	BJ	0.554	20.1	0.059	ND	U	0.705	20.1	0.007	5.39	BJK	2.31	40.2	0.002					
Pretest Tissue - 3	ND	U	0.900	18.4	0.090	ND	U	0.765	18.4	0.077	6.18	BJK	0.360	18.4	0.062	ND	U	0.472	18.4	0.005	9.58	BJK	3.97	36.7	0.003					
Toxic Equivalency Factor (TEF)	0.10					0.10					0.01					0.01					0.0003									

TABLE 41
Analytical Results for Dry Weight Dioxins and Furans in *Nereis virens* tissues

Sample-Replicate #	Total Tetra-Dioxins				Total Tetra-Furans				Total Penta-Dioxins				Total Penta-Furans				Total Hexa-Dioxins				Total Hexa-Furans				Total Hepta-Dioxins				Total Hepta-Furans			
	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL
SYC14-AC REP 1	ND	U	6.77	6.77	ND	U	8.47	8.47	ND	U	3.35	21.5	ND	U	2.65	21.5	ND	U	1.14	21.5	ND	U	1.05	21.5	17.9	J	0.595	21.5	ND	U	1.29	21.5
SYC14-AC REP 2	ND	U	5.64	5.64	ND	U	7.36	7.36	ND	U	3.03	20.9	ND	U	2.46	20.9	ND	U	1.34	20.9	2.87	J	0.622	20.9	ND	U	1.40	20.9	ND	U	1.12	20.9
SYC14-AC REP 3	ND	U	5.52	5.52	ND	U	5.85	5.85	ND	U	2.48	20.4	ND	U	3.48	20.4	ND	U	1.73	20.4	ND	U	0.946	20.4	ND	U	1.50	20.4	1.85	J	0.500	20.4
SYC14-AC REP 4	ND	U	5.43	5.43	ND	U	8.85	8.85	ND	U	3.56	25.0	ND	U	4.04	25.0	5.76	J	1.59	25.0	ND	U	1.18	25.0	ND	U	1.41	25.0	ND	U	0.499	25.0
SYC14-AC REP 5	ND	U	4.35	4.35	ND	U	8.27	8.27	ND	U	2.00	20.7	ND	U	2.37	20.7	ND	U	0.518	20.7	ND	U	1.22	20.7	ND	U	1.54	20.7	1.08	J	0.589	20.7
SYC14-TB Rep 1	ND	U	5.39	5.39	ND	U	8.69	8.69	ND	U	2.57	23.2	ND	U	2.30	23.2	15.3	J	1.27	23.2	ND	U	1.41	23.2	ND	U	1.42	23.2	3.20	J	0.553	23.2
SYC14-TB Rep 2	ND	U	7.32	7.32	ND	U	6.48	6.48	ND	U	2.32	22.5	ND	U	3.31	22.5	ND	U	0.876	22.5	1.60	J	0.538	22.5	ND	U	1.01	22.5	1.93	J	0.647	22.5
SYC14-TB Rep 3	ND	U	6.88	6.88	ND	U	8.29	8.29	ND	U	5.57	26.4	ND	U	3.70	26.4	ND	U	1.35	26.4	ND	U	2.09	26.4	18.2	J	3.38	26.4	ND	U	1.31	26.4
SYC14-TB Rep 4	ND	U	0.665	4.19	1.64	J	0.513	4.19	3.95	J	0.496	20.9	ND	U	0.257	20.9	10.6	J	0.103	20.9	ND	U	0.418	20.9	20.1	J	0.0771	20.9	1.36	J	0.235	20.9
SYC14-TB Rep 5	ND	U	0.587	4.58	4.67	--	0.604	4.58	ND	U	0.633	22.9	2.77	J	0.401	22.9	16.8	J	0.171	22.9	ND	U	0.333	22.9	18.9	J	0.211	22.9	4.38	J	0.185	22.9
SYC14-REF Rep 1	ND	U	0.854	4.78	4.70	J	0.923	4.78	ND	U	0.443	23.9	ND	U	0.406	23.9	ND	U	0.148	23.9	ND	U	0.285	23.9	14.0	J	0.0860	23.9	1.65	J	0.209	23.9
SYC14-REF Rep 2	ND	U	0.926	4.52	ND	U	0.536	4.52	ND	U	0.786	22.6	5.38	J	0.560	22.6	3.57	J	0.325	22.6	1.36	J	0.194	22.6	6.59	J	0.0742	22.6	2.90	J	0.236	22.6
SYC14-REF Rep 3	ND	U	0.625	4.85	3.86	J	0.538	4.85	ND	U	0.745	24.3	ND	U	0.395	24.3	0.597	J	0.338	24.3	ND	U	0.423	24.3	13.0	J	0.411	24.3	1.54	J	0.0554	24.3
SYC14-REF Rep 4	ND	U	0.953	4.77	3.00	J	0.373	4.77	ND	U	0.576	23.9	2.06	J	0.510	23.9	3.09	J	0.248	23.9	ND	U	0.245	23.9	8.24	J	0.207	23.9	ND	U	0.198	23.9
SYC14-REF Rep 5	ND	U	0.531	4.64	ND	U	0.420	4.64	ND	U	0.491	23.2	ND	U	0.434	23.2	2.50	J	0.206	23.2	ND	U	0.236	23.2	12.0	J	0.210	23.2	2.84	J	0.188	23.2
Pretest Tissue - 1	ND	U	3.04	4.28	ND	U	6.05	6.05	ND	U	1.87	21.4	ND	U	1.66	21.4	ND	U	0.916	21.4	ND	U	0.919	21.4	14.6	J	1.68	21.4	ND	U	0.793	21.4
Pretest Tissue - 2	ND	U	7.03	7.03	ND	U	7.41	7.41	ND	U	3.30	20.1	ND	U	1.88	20.1	ND	U	0.803	20.1	ND	U	0.775	20.1	28.7	--	0.943	20.1	5.90	J	0.624	20.1
Pretest Tissue - 3	ND	U	5.51	5.51	ND	U	6.57	6.57	ND	U	1.80	18.4	ND	U	2.54	18.4	ND	U	1.44	18.4	ND	U	0.787	18.4	25.5	--	0.490	18.4	ND	U	0.413	18.4
Toxic Equivalency Factor (TEF)	x				x				x				x				x				x				x				x			

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental
Compiled by: ANAMAR Environmental Consulting, Inc.

TABLE 42

Analytical Results for Dry Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)					1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)					1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)					1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)									
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ					
Sample-Replicate #																																			
SYC14-AC REP 1	ND	U	2.80	2.80	2.800	ND	U	1.42	13.9	1.420	ND	U	1.21	13.9	0.121	ND	U	1.30	13.9	0.130	ND	U	1.17	13.9	0.117	7.94	JK	1.88	13.9	0.079					
SYC14-AC REP 2	ND	U	2.79	3.03	2.790	ND	U	1.28	15.1	1.280	ND	U	0.598	15.1	0.060	ND	U	0.634	15.1	0.063	ND	U	0.571	15.1	0.057	9.09	JK	1.42	15.1	0.091					
SYC14-AC REP 3	ND	U	2.90	2.90	2.900	ND	U	1.79	14.5	1.790	ND	U	0.562	14.5	0.056	ND	U	0.614	14.5	0.061	ND	U	0.546	14.5	0.055	5.63	J	1.34	14.5	0.056					
SYC14-AC REP 4	ND	U	3.52	3.52	3.520	ND	U	3.97	14.4	3.970	ND	U	1.95	14.4	0.195	ND	U	1.98	14.4	0.198	ND	U	1.82	14.4	0.182	17.6	K	4.03	14.4	0.176					
SYC14-AC REP 5	ND	U	0.642	2.92	0.642	ND	U	0.360	14.6	0.360	ND	U	0.286	14.6	0.029	ND	U	0.326	14.6	0.033	ND	U	0.283	14.6	0.028	7.62	J	0.0982	14.6	0.076					
SYC14-TB Rep 1	ND	U	0.762	2.82	0.762	ND	U	0.392	14.1	0.392	0.950	JK	0.408	14.1	0.095	ND	U	0.464	14.1	0.046	1.18	BJ	0.404	14.1	0.118	15.3	--	0.420	14.1	0.153					
SYC14-TB Rep 2	ND	U	1.02	2.89	1.020	8.10	JK	0.511	14.5	8.100	6.33	JK	0.343	14.5	0.633	7.44	JK	0.390	14.5	0.744	7.30	J	0.340	14.5	0.730	19.2	--	0.550	14.5	0.192					
SYC14-TB Rep 3	ND	U	2.58	2.86	2.580	4.39	JK	1.65	14.3	4.390	3.02	JK	0.288	14.3	0.302	4.92	JK	0.315	14.3	0.492	3.94	JK	0.280	14.3	0.394	17.0	--	1.40	14.3	0.170					
SYC14-TB Rep 4	5.76	K	2.93	3.11	5.760	14.1	J	1.62	15.6	14.100	12.5	JK	0.384	15.6	1.250	14.1	J	0.438	15.6	1.410	11.9	J	0.381	15.6	1.190	24.4	--	0.834	15.6	0.244					
SYC14-TB Rep 5	ND	U	3.19	3.19	3.190	ND	U	1.84	14.6	1.840	ND	U	0.380	14.6	0.038	ND	U	0.436	14.6	0.044	ND	U	0.378	14.6	0.038	11.4	JK	0.916	14.6	0.114					
SYC14-REF Rep 1	ND	U	2.97	2.97	2.970	ND	U	0.802	13.9	0.802	ND	U	0.586	13.9	0.059	ND	U	0.640	13.9	0.064	ND	U	0.569	13.9	0.057	3.39	BJ	0.954	13.9	0.034					
SYC14-REF Rep 2	ND	U	5.72	5.72	5.720	ND	U	1.64	14.4	1.640	ND	U	0.911	14.4	0.091	ND	U	1.08	14.4	0.108	ND	U	0.919	14.4	0.092	5.47	JK	0.721	14.4	0.055					
SYC14-REF Rep 3	ND	U	5.15	5.15	5.150	ND	U	1.02	14.0	1.020	ND	U	0.593	14.0	0.059	ND	U	0.665	14.0	0.067	ND	U	0.584	14.0	0.058	4.85	JK	1.20	14.0	0.049					
SYC14-REF Rep 4	ND	U	2.86	2.86	2.860	ND	U	1.28	14.0	1.280	ND	U	0.697	14.0	0.070	ND	U	0.755	14.0	0.076	ND	U	0.674	14.0	0.067	4.87	J	0.816	14.0	0.049					
SYC14-REF Rep 5	ND	U	3.63	3.63	3.630	ND	U	1.18	13.9	1.180	ND	U	0.825	13.9	0.083	ND	U	0.950	13.9	0.095	ND	U	0.822	13.9	0.082	4.03	BJK	0.683	13.9	0.040					
Pretest Tissue - 1	ND	U	2.34	2.85	2.340	ND	U	1.62	14.2	1.620	ND	U	0.531	14.2	0.053	ND	U	0.583	14.2	0.058	ND	U	0.517	14.2	0.052	ND	U	1.22	14.2	0.012					
Pretest Tissue - 2	ND	U	2.63	2.74	2.630	ND	U	1.31	13.7	1.310	ND	U	0.506	13.7	0.051	ND	U	0.559	13.7	0.056	ND	U	0.494	13.7	0.049	ND	U	1.07	13.7	0.011					
Pretest Tissue - 3	ND	U	3.49	3.49	3.490	ND	U	2.30	14.1	2.300	ND	U	0.572	14.1	0.057	ND	U	0.639	14.1	0.064	ND	U	0.562	14.1	0.056	5.51	JK	2.55	14.1	0.055					
Toxic Equivalency Factor (TEF)	1.00					1.00					0.10					0.10					0.10					0.01									

TABLE 42

Analytical Results for Dry Weight Dioxins and Furans in *Macoma nasuta* tissues

Sample-Replicate #	Analyte: Octachlorodibenzo-p-dioxin (OCDD)					2,3,7,8-Tetrachlorodibenzofuran (TCDF)					1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)					2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)					1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)				
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ
SYC14-AC REP 1	63.7	--	1.06	27.9	0.019	ND	U	4.98	4.98	0.498	ND	U	1.58	13.9	0.047	ND	U	1.53	13.9	0.459	ND	U	0.517	13.9	0.052	ND	U	0.447	13.9	0.045
SYC14-AC REP 2	145	--	2.71	30.3	0.044	ND	U	4.20	4.20	0.420	ND	U	1.51	15.1	0.045	ND	U	1.35	15.1	0.405	ND	U	0.557	15.1	0.056	ND	U	0.476	15.1	0.048
SYC14-AC REP 3	91.3	--	1.31	29.0	0.027	ND	U	4.04	4.04	0.404	ND	U	1.54	14.5	0.046	ND	U	1.42	14.5	0.426	ND	U	0.401	14.5	0.040	ND	U	0.338	14.5	0.034
SYC14-AC REP 4	176	K	2.54	28.9	0.053	ND	U	4.08	4.08	0.408	ND	U	3.09	14.4	0.093	ND	U	2.56	14.4	0.768	ND	U	1.11	14.4	0.111	ND	U	0.950	14.4	0.095
SYC14-AC REP 5	97.2	--	0.462	29.2	0.029	ND	U	0.846	2.92	0.085	ND	U	0.739	14.6	0.022	ND	U	0.705	14.6	0.212	0.769	JK	0.135	14.6	0.077	ND	U	0.117	14.6	0.012
SYC14-TB Rep 1	121	--	0.421	28.2	0.036	ND	U	0.843	2.82	0.084	ND	U	0.402	14.1	0.012	ND	U	0.379	14.1	0.114	ND	U	0.435	14.1	0.044	0.914	JK	0.375	14.1	0.091
SYC14-TB Rep 2	153	--	0.496	28.9	0.046	2.65	J	0.784	2.89	0.265	7.38	J	0.496	14.5	0.221	7.14	J	0.458	14.5	2.142	6.59	JK	0.226	14.5	0.659	6.52	J	0.198	14.5	0.652
SYC14-TB Rep 3	148	--	0.824	28.6	0.044	ND	U	3.14	3.14	0.314	4.59	J	1.07	14.3	0.138	2.36	JK	0.990	14.3	0.708	2.42	JK	0.459	14.3	0.242	3.11	J	0.400	14.3	0.311
SYC14-TB Rep 4	145	--	1.54	31.1	0.044	ND	U	3.49	3.49	0.349	13.6	JK	0.800	15.6	0.408	14.5	JK	0.716	15.6	4.350	13.7	J	0.517	15.6	1.370	9.84	JK	0.448	15.6	0.984
SYC14-TB Rep 5	124	--	1.59	29.2	0.037	ND	U	2.58	2.92	0.258	ND	U	0.865	14.6	0.026	ND	U	0.789	14.6	0.237	ND	U	0.324	14.6	0.032	ND	U	0.277	14.6	0.028
SYC14-REF Rep 1	38.2	--	0.913	27.8	0.011	ND	U	1.92	2.78	0.192	ND	U	0.795	13.9	0.024	ND	U	0.730	13.9	0.219	ND	U	0.380	13.9	0.038	ND	U	0.323	13.9	0.032
SYC14-REF Rep 2	26.6	J	1.85	28.9	0.008	ND	U	4.82	4.82	0.482	ND	U	1.69	14.4	0.051	ND	U	1.49	14.4	0.447	ND	U	0.823	14.4	0.082	ND	U	0.720	14.4	0.072
SYC14-REF Rep 3	36.4	--	1.10	28.0	0.011	ND	U	4.84	4.84	0.484	ND	U	1.59	14.0	0.048	ND	U	1.46	14.0	0.438	ND	U	0.323	14.0	0.032	ND	U	0.274	14.0	0.027
SYC14-REF Rep 4	34.7	--	0.989	28.0	0.010	ND	U	4.90	4.90	0.490	ND	U	1.31	14.0	0.039	ND	U	1.12	14.0	0.336	ND	U	0.621	14.0	0.062	ND	U	0.523	14.0	0.052
SYC14-REF Rep 5	34.1	--	0.436	27.7	0.010	ND	U	3.66	3.66	0.366	ND	U	0.978	13.9	0.029	ND	U	0.898	13.9	0.269	ND	U	0.292	13.9	0.029	ND	U	0.246	13.9	0.025
Pretest Tissue - 1	8.79	JK	1.77	28.5	0.003	ND	U	5.17	5.17	0.517	ND	U	1.20	14.2	0.036	ND	U	1.16	14.2	0.348	ND	U	0.368	14.2	0.037	ND	U	0.319	14.2	0.032
Pretest Tissue - 2	66.7	--	1.23	27.4	0.020	ND	U	5.31	5.31	0.531	ND	U	2.25	13.7	0.068	ND	U	2.22	13.7	0.666	ND	U	0.411	13.7	0.041	ND	U	0.336	13.7	0.034
Pretest Tissue - 3	9.29	JK	2.86	28.1	0.003	ND	U	4.48	4.48	0.448	ND	U	1.36	14.1	0.041	ND	U	1.29	14.1	0.387	ND	U	0.578	14.1	0.058	ND	U	0.519	14.1	0.052
Toxic Equivalency Factor (TEF)	0.0003					0.10					0.03					0.30					0.10					0.10				

TABLE 42

Analytical Results for Dry Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)					2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)					1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)					1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)					Octachlorodibenzofuran (OCDF)									
	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ	Result ng/Kg	Qualifier	MDL	MRL	TEQ					
Sample-Replicate #																														
SYC14-AC REP 1	ND	U	0.733	13.9	0.073	ND	U	0.570	13.9	0.057	ND	U	0.713	13.9	0.007	ND	U	0.895	13.9	0.009	ND	U	2.88	27.9	0.001					
SYC14-AC REP 2	ND	U	0.712	15.1	0.071	ND	U	0.550	15.1	0.055	1.84	BJK	0.645	15.1	0.018	ND	U	0.849	15.1	0.008	ND	U	2.58	30.3	0.001					
SYC14-AC REP 3	ND	U	0.509	14.5	0.051	ND	U	0.384	14.5	0.038	ND	U	0.675	14.5	0.007	ND	U	0.903	14.5	0.009	2.88	JK	2.50	29.0	0.001					
SYC14-AC REP 4	ND	U	1.44	14.4	0.144	ND	U	0.884	14.4	0.088	ND	U	0.965	14.4	0.010	ND	U	1.20	14.4	0.012	ND	U	5.26	28.9	0.002					
SYC14-AC REP 5	ND	U	0.191	14.6	0.019	0.442	JK	0.131	14.6	0.044	1.44	BJK	0.228	14.6	0.014	ND	U	0.370	14.6	0.004	5.29	JK	1.35	29.2	0.002					
SYC14-TB Rep 1	ND	U	0.546	14.1	0.055	1.23	J	0.427	14.1	0.123	1.56	BJK	0.175	14.1	0.016	ND	U	0.276	14.1	0.003	3.73	JK	1.10	28.2	0.001					
SYC14-TB Rep 2	6.21	J	0.291	14.5	0.621	6.96	JK	0.228	14.5	0.696	7.44	J	0.205	14.5	0.074	5.75	J	0.293	14.5	0.058	14.9	J	0.950	28.9	0.004					
SYC14-TB Rep 3	4.60	JK	0.520	14.3	0.460	3.42	JK	0.442	14.3	0.342	5.91	JK	0.166	14.3	0.059	2.79	BJK	0.220	14.3	0.028	9.22	JK	1.54	28.6	0.003					
SYC14-TB Rep 4	13.2	JK	0.566	15.6	1.320	13.1	J	0.499	15.6	1.310	13.7	J	0.627	15.6	0.137	12.1	JK	0.849	15.6	0.121	26.3	J	2.76	31.1	0.008					
SYC14-TB Rep 5	ND	U	0.350	14.6	0.035	ND	U	0.309	14.6	0.031	1.50	BJK	0.225	14.6	0.015	ND	U	0.295	14.6	0.003	ND	U	1.73	29.2	0.001					
SYC14-REF Rep 1	ND	U	0.416	13.9	0.042	ND	U	0.353	13.9	0.035	ND	U	0.197	13.9	0.002	ND	U	0.255	13.9	0.003	ND	U	1.64	27.8	0.000					
SYC14-REF Rep 2	ND	U	0.948	14.4	0.095	ND	U	0.780	14.4	0.078	ND	U	0.360	14.4	0.004	ND	U	0.476	14.4	0.005	ND	U	2.09	28.9	0.001					
SYC14-REF Rep 3	ND	U	0.392	14.0	0.039	ND	U	0.301	14.0	0.030	ND	U	0.375	14.0	0.004	ND	U	0.460	14.0	0.005	ND	U	3.89	28.0	0.001					
SYC14-REF Rep 4	ND	U	0.737	14.0	0.074	ND	U	0.577	14.0	0.058	0.783	BJK	0.500	14.0	0.008	ND	U	0.607	14.0	0.006	ND	U	2.46	28.0	0.001					
SYC14-REF Rep 5	ND	U	0.350	13.9	0.035	ND	U	0.280	13.9	0.028	ND	U	0.146	13.9	0.001	ND	U	0.183	13.9	0.002	ND	U	1.90	27.7	0.001					
Pretest Tissue - 1	ND	U	0.503	14.2	0.050	ND	U	0.364	14.2	0.036	ND	U	0.521	14.2	0.005	ND	U	0.744	14.2	0.007	ND	U	2.12	28.5	0.001					
Pretest Tissue - 2	ND	U	0.542	13.7	0.054	ND	U	0.386	13.7	0.039	1.41	BJK	0.527	13.7	0.014	ND	U	0.748	13.7	0.007	ND	U	2.35	27.4	0.001					
Pretest Tissue - 3	ND	U	0.813	14.1	0.081	ND	U	0.578	14.1	0.058	ND	U	1.32	14.1	0.013	ND	U	1.64	14.1	0.016	ND	U	4.98	28.1	0.001					
Toxic Equivalency Factor (TEF)	0.10					0.10					0.01					0.01					0.0003									

TABLE 42

Analytical Results for Dry Weight Dioxins and Furans in *Macoma nasuta* tissues

Analyte:	Total Tetra-Dioxins				Total Tetra-Furans				Total Penta-Dioxins				Total Penta-Furans				Total Hexa-Dioxins				Total Hexa-Furans				Total Hepta-Dioxins				Total Hepta-Furans							
	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL	Result ng/Kg	Qualifier	MDL	MRL				
Sample-Replicate #																																				
SYC14-AC REP 1	ND	U	2.80	2.80	ND	U	4.98	4.98	ND	U	1.42	13.9	ND	U	1.63	13.9	ND	U	1.23	13.9	ND	U	0.552	13.9	21.6	--	1.88	13.9	ND	U	0.798	13.9				
SYC14-AC REP 2	ND	U	2.79	3.03	ND	U	4.20	4.20	1.60	J	1.28	15.1	ND	U	2.39	15.1	15.0	J	0.601	15.1	1.07	J	0.563	15.1	45.9	--	1.42	15.1	ND	U	0.739	15.1				
SYC14-AC REP 3	ND	U	2.90	2.90	ND	U	4.04	4.04	ND	U	1.79	14.5	ND	U	1.35	14.5	ND	U	0.574	14.5	ND	U	0.401	14.5	5.63	J	1.34	14.5	ND	U	0.782	14.5				
SYC14-AC REP 4	ND	U	3.52	3.52	ND	U	8.00	8.00	ND	U	3.97	14.4	ND	U	3.16	14.4	ND	U	1.91	14.4	ND	U	1.07	14.4	ND	U	4.03	14.4	ND	U	1.08	14.4				
SYC14-AC REP 5	4.53	--	0.642	2.92	ND	U	0.846	2.92	4.56	J	0.360	14.6	ND	U	0.538	14.6	15.6	--	0.298	14.6	ND	U	0.139	14.6	37.0	--	0.0982	14.6	1.43	J	0.286	14.6				
SYC14-TB Rep 1	ND	U	0.762	2.82	ND	U	0.843	2.82	5.73	J	0.392	14.1	ND	U	0.344	14.1	22.9	--	0.424	14.1	1.23	J	0.438	14.1	46.7	--	0.420	14.1	ND	U	0.216	14.1				
SYC14-TB Rep 2	5.21	--	1.02	2.89	2.65	J	0.784	2.89	3.02	J	0.511	14.5	14.5	--	0.340	14.5	32.1	--	0.357	14.5	12.7	J	0.232	14.5	74.9	--	0.550	14.5	14.9	--	0.243	14.5				
SYC14-TB Rep 3	ND	U	2.58	2.86	ND	U	3.14	3.14	ND	U	1.65	14.3	4.59	J	1.14	14.3	5.90	J	0.294	14.3	3.11	J	0.451	14.3	78.7	--	1.40	14.3	ND	U	0.191	14.3				
SYC14-TB Rep 4	ND	U	2.93	3.11	ND	U	3.49	3.49	16.8	--	1.62	15.6	ND	U	1.08	15.6	49.2	--	0.400	15.6	28.2	--	0.503	15.6	24.4	--	0.834	15.6	13.7	J	0.727	15.6				
SYC14-TB Rep 5	ND	U	3.19	3.19	ND	U	2.58	2.92	4.25	J	1.84	14.6	ND	U	0.917	14.6	18.5	--	0.397	14.6	ND	U	0.312	14.6	43.6	--	0.916	14.6	2.43	J	0.257	14.6				
SYC14-REF Rep 1	ND	U	2.97	2.97	ND	U	1.92	2.78	ND	U	0.802	13.9	ND	U	0.313	13.9	ND	U	0.598	13.9	ND	U	0.365	13.9	18.5	--	0.954	13.9	ND	U	0.224	13.9				
SYC14-REF Rep 2	ND	U	5.72	5.72	ND	U	4.82	4.82	ND	U	1.64	14.4	ND	U	2.01	14.4	7.53	J	0.966	14.4	ND	U	0.810	14.4	ND	U	0.721	14.4	ND	U	0.414	14.4				
SYC14-REF Rep 3	ND	U	5.15	5.15	ND	U	4.84	4.84	ND	U	1.02	14.0	ND	U	2.04	14.0	ND	U	0.613	14.0	ND	U	0.317	14.0	11.0	J	1.20	14.0	ND	U	0.416	14.0				
SYC14-REF Rep 4	ND	U	2.86	2.86	ND	U	4.90	4.90	ND	U	1.28	14.0	ND	U	1.20	14.0	ND	U	0.709	14.0	ND	U	0.605	14.0	17.0	--	0.816	14.0	ND	U	0.551	14.0				
SYC14-REF Rep 5	ND	U	3.63	3.63	ND	U	3.66	3.66	ND	U	1.18	13.9	ND	U	1.24	13.9	6.61	J	0.865	13.9	ND	U	0.287	13.9	12.6	J	0.683	13.9	ND	U	0.164	13.9				
Pretest Tissue - 1	ND	U	2.34	2.85	ND	U	5.17	5.17	ND	U	1.62	14.2	ND	U	2.03	14.2	ND	U	0.544	14.2	ND	U	0.379	14.2	ND	U	1.22	14.2	ND	U	0.620	14.2				
Pretest Tissue - 2	ND	U	2.63	2.74	ND	U	5.31	5.31	ND	U	1.31	13.7	ND	U	1.01	13.7	ND	U	0.519	13.7	ND	U	0.408	13.7	4.24	J	1.07	13.7	ND	U	0.628	13.7				
Pretest Tissue - 3	ND	U	3.49	3.49	ND	U	4.48	4.48	ND	U	2.30	14.1	ND	U	1.55	14.1	ND	U	0.591	14.1	ND	U	0.606	14.1	ND	U	2.55	14.1	ND	U	1.47	14.1				
Toxic Equivalency Factor (TEF)	x				x				x				x				x				x				x				x							

Data qualifiers and acronyms are defined at the front of the tables section.

Source: ALS Environmental
 Compiled by: ANAMAR Environmental Consulting, Inc.