



Annual Monitoring Report – 2005 - Weanack Dredge Spoil Utilization

To: Raymond Jenkins, Virginia DEQ, Piedmont Regional Office

From: W. Lee Daniels and G. Richard Whittecar (Old Dominion Univ.)

Re: Weanack Ground & Surface Water Monitoring for VPA Permit No. VPA00579

Date: **February 14, 2006**

Cc: Mike Baker, PCC
Charles Carter, Weanack
George Junkin, American Land Concepts

This memorandum and associated maps, attachments and data sets comprise our Annual Monitoring Report for all work conducted in calendar year 2005 for inbound sediment analyses, on-site soil analyses, ground and surface water monitoring, hydrogeologic modeling and beneficial use study requirements for VPA Permit No. VPA00579. The original monitoring plan submitted to DEQ by American Land Concepts in November, 2000, focused on the Woodrow Wilson Bridge (WWB) sediment utilization area (Fig. 1). This approved monitoring plan served as the basis for our protocols and designs through mid 2004. On September 7, 2004, Virginia DEQ approved a modification to the monitoring plan as outlined below that reduced the number of water quality sampling points and frequency. Subsequently, in July 2005, DEQ approved a further modification to the permit and monitoring requirements to allow placement of a new source of dredge spoil (Earle Naval Weapons Station - Earle) into a separate utilization basin as shown in Fig. 2. Thus, this report for 2005 includes data and analyses relative to both utilization areas plus overall assessments of site hydrologic conditions detailed later.

Virginia Tech and Old Dominion University (ODU) continue to serve as subcontractors to Weanack Land LLC to carry out the monitoring and research specified in the plan. We are also providing additional monitoring data sets and results to Potomac Crossing Consultants (PCC) and MDOT that are considerably beyond the scope of DEQ's monitoring requirements, and are detailed in Attachment B of the PCC/MDOT/Weanack agreement. Those additional data are also included in this report, however, since they directly amplify and reinforce the overall monitoring data set and conclusions.

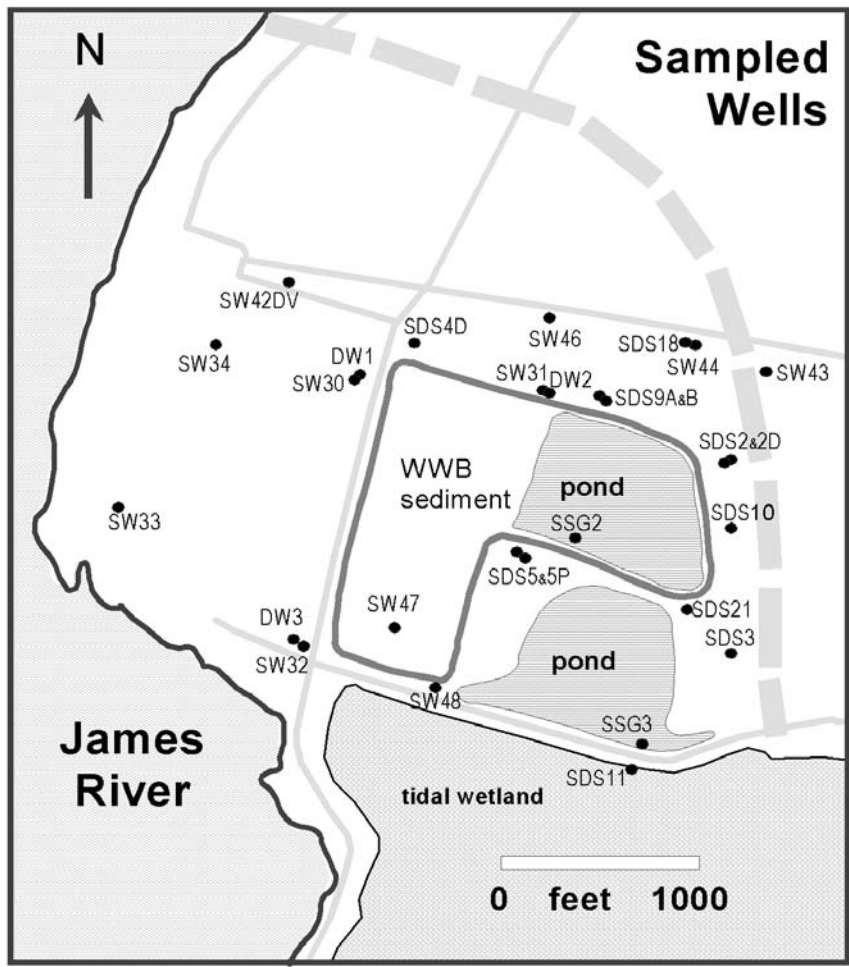


Figure 1. Map of basin location and monitoring wells around the Woodrow Wilson Bridge sediments discussed in this report. The Shirley Plantation drinking well (SP) in the NW corner of the map area was also sampled but is not shown.

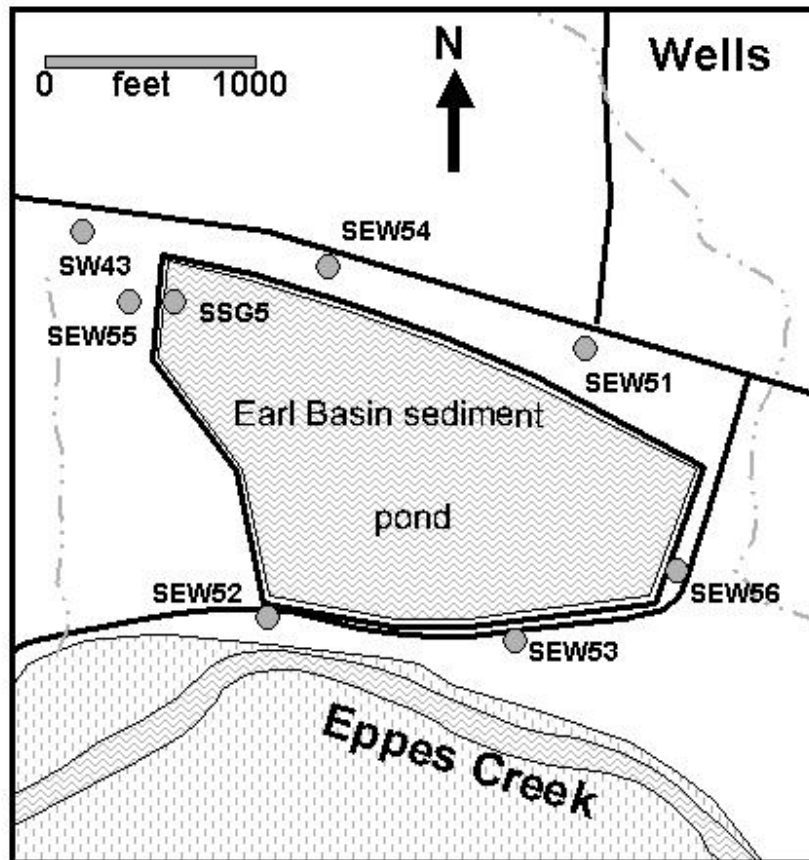


Figure 2. Map of basin location and monitoring wells sampled around the Earle sediment basin as discussed in this report. The WWB basin lies to east, across the ephemeral drain shown running south to Eppes Creek.

Water Quality Monitoring

Under the approved 9/7/04 monitoring plan revision, we reduced our routine monitoring frequency for temperature, pH, EC, and DOC to quarterly (Jan/Apr/July/Oct), and our water quality sampling locations were reduced from all wells available on-site to a minimum of the seven specified below for PCC/MDOT Attachment B. Thus, the following set of locations (see Fig. 1) was used for all water quality sampling through June of 2005:

Upgradient ground-water wells: SDS 02 and SDS 03

Downgradient ground-water wells: SW 30 and SW 31

Surface water: SSG1 and 2 are sampled from two separate ponded locations within the dikes, and **SSG3 3** is sampled at the discharge point of the large pre-existing sediment pond to the southeast of the diked area. Notes: Due to wet conditions, sampling points SSG1 and SSG2 were surface water connected and were sampled together as SSG 2.

Owner's drinking well: SP-well

The locations specified above were sampled for detailed "full suite" of water quality analyses in April of 2005 as set forth in Table 2 of the PCC/MDOT Attachment B monitoring protocol and DEQ Table 1 from the 2004 water quality monitoring revision. These locations were also monitored monthly for water level, temperature pH, EC and DOC through July of 2005. New wells (discussed below) added for the Earle basin were sampled for the full Safe Drinking Water (SDW) suite of parameters in June 2005, and then all primary monitoring wells were sampled in October of 2005 and analyzed for a "partial suite" of parameters.

2005 Monitoring Well Additions, Adjustments and Hydrogeologic Analyses

Virginia Tech and ODU maintained the well sites around the existing basin containing the WWB sediments (Fig. 1) and restored several wells that were damaged due to farming operations. Based on advice from DEQ, one of sites used to characterize "upgradient" water conditions for the WWB site was switched from SDS2 to SEW43. We also conducted routine quarterly monitoring (Jan/Apr/July/Oct) of wells around the WWB site for pH, conductivity, and DOC. We collected WWB water samples for a "full suite" of analyses in April 2005 and both the WWB and Earle wells for a "partial suite" of analyses in October 2005. Because a subcontractor doing some of the chemical analyses contaminated the initial samples submitted, we re-sampled the WWB wells in May 2005.

In preparation for the initiation of monitoring around the new Earle Basin sediment disposal site, we installed new monitoring wells SEW 51 – SEW 56 in June, 2005 (Fig. 2). SEW 51 and 54 are upgradient of the new containment area; SEW 52 and 53 are downgradient. SEW 55 is a shallow monitoring well used for water flow reconstructions only. SEW 56 is not used for analyses of water flow or water quality because it is in a saturated zone that is apparently perched above the regional water table being mapped. We also sample ponded water from the basin (when present) and that sample is designated as EB or SSG 5. Well construction and stratigraphic information are available upon request. In order to provide pre-construction

baseline data for the Earle Basin site, we sampled the upgradient and down gradient wells in June 2005.

Site selection for the six Earle Basin wells was based on stratigraphic analyses of more than 35 deep borings made across the site during exploration of sand and gravel resources. This analysis indicated that the Earle Basin lies atop layers of compact silt-clay as much as 5 m thick (Fig. 3). Throughout the study area, beneath that fine-grained surface bed lies an extensive sand-and-gravel aquifer 2-3 m thick; at places the aquifer is more than 10 m thick. This aquifer is relatively complex in that it contains several discontinuous mud beds that form local aquitards, and SEW 56 is thought to be perched on one such bed.

Analyses of water flow direction for the WWB disposal site shown in Figure 4 show no important change in flow directions from previous analyses. Water levels in the pond inside of the berm dropped significantly during 2005 and re-exposed the staff gage in the pond. These lowered water levels reduced hydraulic gradients and thus total discharge leaving the disposal site during the year.

The groundwater flow analyses of the Earle Basin site (Figure 5) indicate that water flows laterally through the uppermost bed of coarse sediment underlying the surficial fine-grained sediment. According to our water level measurements, the water table in this aquifer has its highest elevations in the middle of the interfluvial bed between incised stream valleys, and slopes radially from that crest towards tidal Eppes Creek and the adjacent valleys. This gentle ground water mound lies several meters below the level of the pond present in the containment basin at the end of 2005.

The water pH and conductivity readings for the monitoring wells around the Earle Basin are values typical for groundwater in this hydrogeologic setting. The water in the Earle Basin sediment retention basin is brackish, reflecting the pore water quality of the estuarine sediments placed in the basin. Water quality readings in the down gradient wells (SEW 52 and 53) suggest water from the basin has yet to reach those well sites. Sediments were placed in the basin between August 2005 and January 2006. Reportedly the clay-rich substrate across the floor of the basin was purposefully compacted and smeared to reduce its permeability. If the rate of downward seepage has been reduced significantly by this engineering effort, it may be many months before the saline water reaches the down gradient wells.

Dredge Spoil Testing

Reclamation Material Sediment Chemistry: Samples representing every 30,000 yards of inbound material were taken by Weeks Marine personnel and splits were submitted to Microbac Labs/Gascoyne and Virginia Tech for comprehensive analyses. Microbac was shipped an evenly weighted composite of each 30,000 yards that was subjected to an extensive testing protocol. Virginia Tech received 5,000 yard composites (six 5000-yard samples each time a Microbac sample was shipped) that we tested for potential acidity (PPA) by the hydrogen peroxide oxidation method and calcium carbonate equivalence (CCE) by acid back-titration. We also maintain an archive of all samples in our freezer.

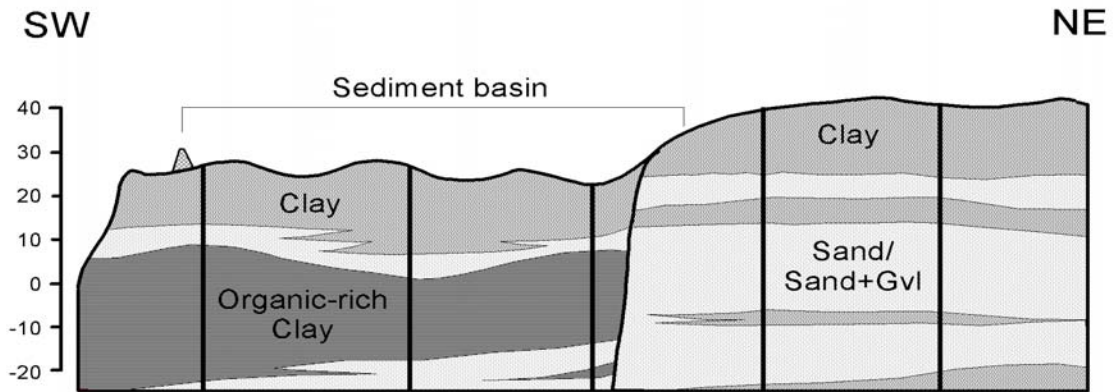
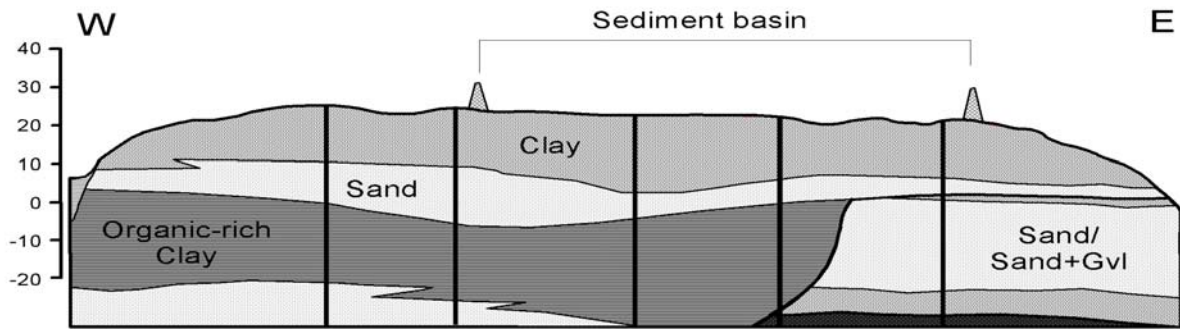


Figure 3. Geologic cross-sections of site containing the Earl Basin sediment disposal basin. Both cross sections are taken through the middle of the basin. Analyses based on borehole data collected during exploration for sand and gravel resources; vertical lines mark the location of the boreholes used for that cross-section.

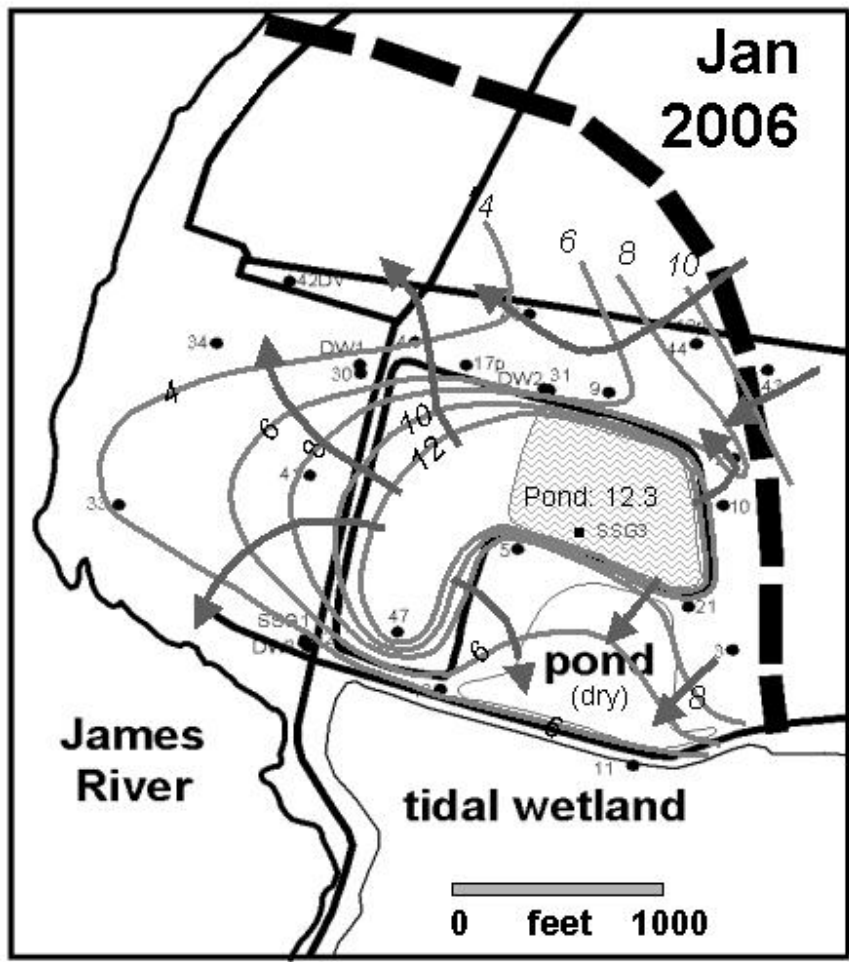


Figure 4. Ground water flow around the disposal site for the Woodrow Wilson Bridge sediments. Wells are marked with the number of their label. Contours are in feet elevation. Dashed line notes location of a distinct scarp between a higher terrace to the north and east of the study site.

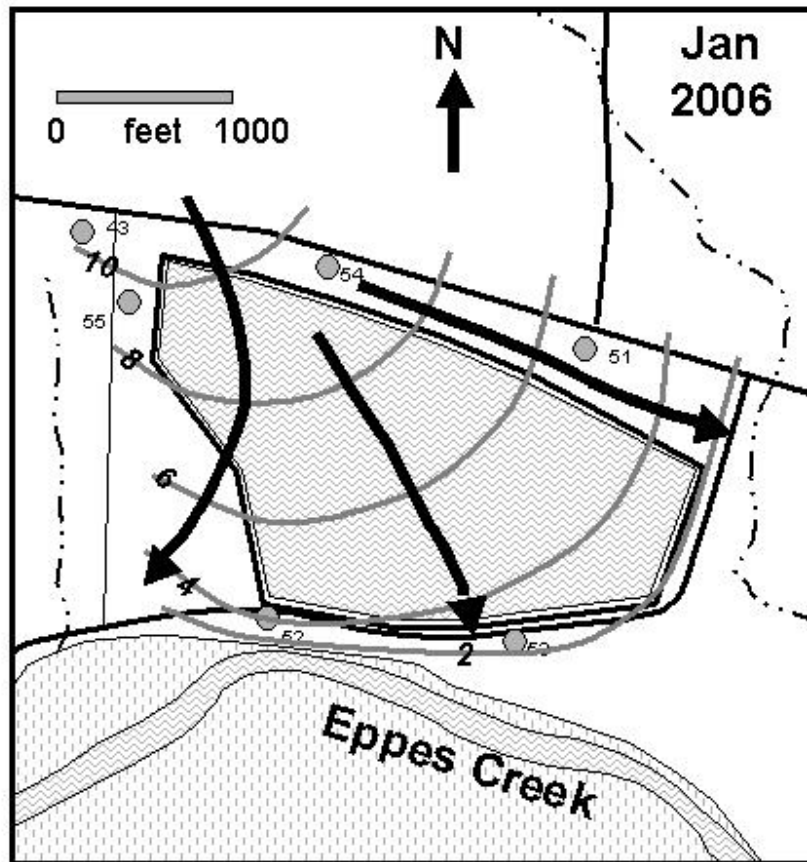


Figure 5. Ground water flow around the disposal site for the Earl Basin sediments. Wells are marked with the number of their label. Contours are in feet elevation. Dot-and-dashed line marks position of streams in valleys.

Overall Sediment Quality Results

No new WWB sediments were received in 2005. However, over 230,000 yards of Earle sediments were received between August and December of 2005. As specified in permit conditions, Weeks Marine personnel took composite samples of every 30,000 yards at the dredge site for combined analyses by Microbac and Virginia Tech. Complete analytical data on the composite samples and the Virginia Tech splits are contained in Attachment 1.

Eight detailed 30,000 yard analytical data sets were received from Microbac in 2005. Overall, the average analyses for metals, pesticides and organics were quite similar to those provided by Weeks Marine in the permit review and approval process. Due to the essentially full marine environment where these materials were dredged, the inbound sediments were considerably higher in chloride, sodium and sulfate content than the freshwater riverine WWB sediments

received in earlier years. Several PAH's (Fuoroanthene, Pyrene, Benzo(a)anthracene, and several other related compounds) were detected in three composites, and appeared to be higher in the later sediments received. Similarly, Bis(2-ethylhexyl)phthalate was detected in the two later samples. These compounds were noted as being detectable and present at similar levels in permit review materials, however. The vast majority of the remaining organics and pesticides analyzed for in the inbound sediments continue to be either non-detectable or present at very low background levels.

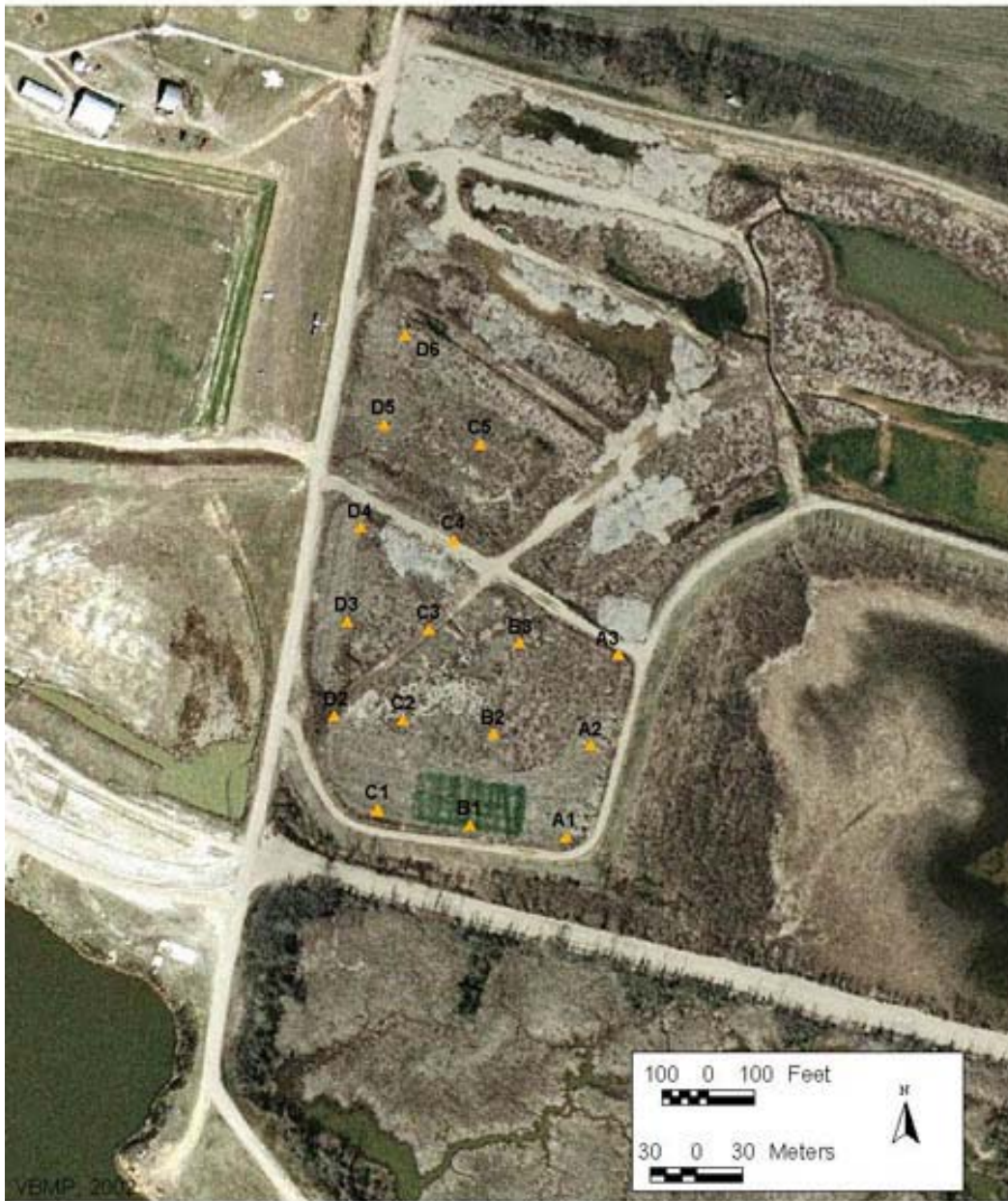
Analysis of the 48 inbound sediment samples by Virginia Tech for potential acidity (lime requirement) indicated that an average of one ton of agricultural lime (per acre 6 inches) would be required over the "weathering lifetime" of this material to offset all acidity produced (Attachment 1). There were a number of samples received, particularly in the early portion of the sample stream, that did contain significant (> 5.0 tons) levels of acidity. The highest observed potential acidity (14 tons) was observed in late September in load 30. Beyond that point, our laboratories also tested all inbound samples for lime content (CCE – Attachment 1) and found that the average was 6.83 tons per thousand. Thus, due to large amount of inherent CCE in these materials and the presumption that any acid forming materials would be mixed, diluted, and "sandwiched" by higher CCE sediments, we do not expect net acid forming conditions to develop as these materials dewater.

Soil Formation/Beneficial Use Conversion Studies

The fully dewatered portion (W and SW) of the WWB basin area was disked for weed control in the spring of 2005 and planted to corn by Mr. Carter's contract farmer. Using conventional management and inputs, the farmer estimated 2005 average corn yield at approximately 180 bushels per acre. Regional averages on better soils are 160 to 180 bushels per acre. No management limitations were noted.

In June of 2005, and in accordance with our monitoring agreements, we transect sampled the dry and arable portions of the WWB sediments as shown in Figure 6. The soils were sampled with a 3.5 inch diameter bucket auger to a depth of 60 inches. Basic soil horizonation, color, structure and rooting were carefully described before bulk samples were taken of the 0-6" plow layer and the deeper, least weathered sediments at 60". The soils were transported to our laboratories and analyzed for particle size analysis and dilute acid extractable nutrients and metals. That data set is presented in Attachment 2.

The particle size analysis data reinforce the positive physical quality of these materials as discussed in earlier reports. The average soil texture observed is a silt loam with a few sample points falling into the loam and silty clay loam classes. The surface horizons were well aggregated while deeper structural development was primarily from the large downward developing polygonal prisms discussed in earlier reports. The depth of oxidation varied quite a bit, but most soils showed browner oxidized colors to a depth of at least 18 inches. Most of the deeper horizons were still very dark grayish-blue in color. Detailed pedon descriptions are available upon request.



▲ Soil sample locations

Figure 6. Soil boring and sampling locations in agricultural area of WWB basin in June of 2005. This photograph was taken in 2002 and the original row-crop experimental area can be seen at point B1.

From a standpoint of soil chemical properties and fertility, these newly developed soils are outstanding and actually superior to most native agricultural soils. The pH of the surface soil ranges from 6.6 to 7.4, despite over three years of oxidation and weathering. Extractable cations (Ca, Mg and K) are very high, extractable P is moderate, and levels of essential micronutrients like Zn and Mn are moderate, but not high.

Once dewatered, we expect the balance of the sediments in the WWB basin to behave in similar fashion. Thus, once cured and aggregated for some period of time, we predict that these will be very good agricultural soils.

Water Quality

In concordance with all annual monitoring reports to date, we have not been able to detect any significant detrimental effects of sediment placement upon ground- or surface-water quality in or around the WWB dredge disposal area (see Attach. 3). As expected, ground water levels of DOC and sulfates also appear to be dropping with time relative to previous years, although the DOC levels continue to be quite variable. As discussed in last year's report, neither of these parameters is present at levels of concern for drinking water quality in the downgradient wells.

Review of the baseline (June 2005) Earle basin well data revealed no notable pre-existing water quality issues, although several locations approached or exceeded the nitrate-N drinking water standard of 10 mg/L. This is certainly due to the long term history of intensive agriculture in this area. The water quality data set from the October 2005 sampling indicates no net effect of the placement of the Earle dredge sediments on the downgradient ground water sampling locations. However, as expected, the water samples taken from the ponded basin (SSG 5 and/or EB1) were quite high in EC, chloride, sulfate and DOC as would be expected from the porewaters of saline dredge materials. The chlorides from this water should be relatively mobile, and we will watch the downgradient wells carefully over the next several years to note any migration.

Overall Monitoring Summary

Our combined conclusion to date remains that the WWB materials appear benign with respect to potential ground or surface water degradation. We have yet to detect any significant contaminants in inbound dredge spoils, dewatered dredge soils, or water samples in and around the disposal/utilization area.

The Earle basin materials differ from the WWB dredge sediments in that they contain a much higher inbound salt load, are slightly higher in total heavy metals, and do contain detectable levels of certain organics as discussed earlier. Future soil and water quality monitoring efforts will be focused on these parameters to determine net degradation, attenuation, or any potential for movement with time.

Acknowledgments

We deeply appreciate the continuing support of Mr. Charles Carter of Weanack/Shirley and Mr. Mike Baker of Potomac Crossing Consultants/Woodrow Wilson Bridge Project in our efforts. The assistance in the field of Steve Nagle, Mike Nester, Nicole Ginnis, Aaron Despres, Daniel Raines, and Paula Zimmerman was also essential to our continuing efforts. The sediment and water data sets contained herein were compiled by Sue Brown.

ATTACHMENT 1

Inbound Sediment Analyses

Weanack Sediment
Earle Dredge Barge Composite

Analyses	Methods	Units	Sample Date:	8/2/05		8/10/05	
			Avg Test Results*	Test Results	Reporting Limit	Test Results	Reporting Limit
Moisture	Dried at 105 degrees	WT%	47.0				
Moisture Content	160.3_R3_83	WT%	48.3	50	0.050	36	0.10
Total Metals							
Antimony	EPA -SW 6010B	mg/kg		4.3	0.99	0.74	0.37
Arsenic		mg/kg	14.8	20	0.40	5.0	0.15
Beryllium		mg/kg		0.77	0.49	0.20	0.19
Cadmium		mg/kg	1.2	1.6	0.099	0.34	0.037
Calcium		mg/kg	15,213	3,300	50	4,700	78
Chromium		mg/kg	97	110	0.49	22	0.19
Copper		mg/kg	91.4	130	0.40	25	0.15
Iron		mg/kg	26,125	12,000	5.0	21,000	20
Lead		mg/kg	89	110	0.40	25	0.15
Magnesium		mg/kg	4,750	2,400	10	3,500	16
Manganese		mg/kg	344	460	0.99	120	0.37
Nickel		mg/kg		<0.40	0.40	<0.15	0.15
Potassium		mg/kg	2,450	1,100	100	1,600	160
Selenium		mg/kg		1.3	0.99	<0.37	0.37
Silver		mg/kg		3.7	0.20	0.81	0.075
Sodium		mg/kg	8,225	5,800	100	6,500	160
Thallium		mg/kg		0.77	0.40	<0.15	0.15
Zinc		mg/kg	187	230	4.0	56	1.5

*Average for 2005 sediments received. Values not calculated when any value was below detection.

Weanack Sediment
Earle Dredge Barge Composite

Analyses	Methods	Units	Sample Date: 8/22/05		8/29/05		9/12/05	
			Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
Moisture	Dried at 105 degrees	WT%					47	0.050
Moisture Content	160.3_R3_83	WT%	44	0.050	33	0.050	57	0.10
Total Metals								
Antimony	EPA -SW 6010B	mg/kg	1.5	0.97	1.3	0.96	<5.0	5.0
Arsenic		mg/kg	19	0.39	13	0.38	12	5.0
Beryllium		mg/kg	0.95	0.48	0.62	0.48	<5.0	5.0
Cadmium		mg/kg	1.3	0.097	0.52	0.096	2.1	0.50
Calcium		mg/kg	6,500	97	3,400	96	14,000	50.0
Chromium		mg/kg	120	0.48	150	0.48	100	1.0
Copper		mg/kg	110	0.39	42	0.38	130	10.0
Iron		mg/kg	33,000	9.7	34,000	9.6	27,000	10.0
Lead		mg/kg	99	0.39	43	0.38	120	10.0
Magnesium		mg/kg	5,500	9.7	3,300	9.6	5,300	10.0
Manganese		mg/kg	370	0.97	200	0.96	360	10.0
Nickel		mg/kg	43	0.39	31	0.38	24	10
Potassium		mg/kg	2,800	9.7	2,200	9.6	2,500	10
Selenium		mg/kg	1.4	0.97	<0.96	0.96	<10	10
Silver		mg/kg	3.2	0.19	1.3	0.19	<5.0	5.0
Sodium		mg/kg	7,800	970	5,500	960	10,000	200
Thallium		mg/kg	<0.39	0.39	<0.38	0.38	<5.0	5.0
Zinc		mg/kg	200	3.9	99	3.8	270	5.0

Weanack Sediment
Earle Dredge Barge Composite

Analyses	Methods	Units	Sample Date: 9/27/05		10/6/05		10/24/05	
			Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
Moisture	Dried at 105 degrees	WT%						
Moisture Content	160.3_R3_83	WT%	55	0.05	51	0.050	60	0.050
Total Metals								
Antimony	EPA -SW 6010B	mg/kg	4.6	1.0	<5.0	5.0	4.9	0.99
Arsenic		mg/kg	17	0.40	14	0.40	18	0.40
Beryllium		mg/kg	0.73	0.50	0.78	0.50	0.7	0.50
Cadmium		mg/kg	1.5	0.100	0.99	0.10	1.5	0.099
Calcium		mg/kg	18,000	25	8,800	25	63,000	500
Chromium		mg/kg	99	0.50	76	0.50	100	0.50
Copper		mg/kg	110	0.40	74	0.40	110	0.40
Iron		mg/kg	29,000	5.0	27,000	5.0	26,000	50
Lead		mg/kg	110	0.40	78	0.40	130	0.40
Magnesium		mg/kg	6,100	5.0	5,600	5.0	6,300	50
Manganese		mg/kg	430	0.50	360	1.0	450	0.99
Nickel		mg/kg	27	0.40	23	0.40	27	0.40
Potassium		mg/kg	3,000	5.0	3,500	5.0	2,900	50
Selenium		mg/kg	1.5	1.0	1.0	1.0	102	0.99
Silver		mg/kg	3.5	0.20	2.3	0.50	3.8	0.20
Sodium		mg/kg	11,000	25	8,200	25	11,000	250
Thallium		mg/kg	5.2	0.40	0.50	0.40	0.58	0.40
Zinc		mg/kg	220	4.0	150	4.0	270	99

Weanack Sediment
Earle Dredge Barge Composite

Analyses	Methods	Units	Sample Date:	8/2/05		8/10/05		8/22/05		8/29/05	
			Avg Test Results	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
pH											
Corrosivity	EPA 9045C	pH units	7.7	8.2	1.0	7.7	1.0	7.2	1	7.5	1
Temperature		C degrees	20.3	24.2	0.10	24.5	0.10	22.5	0.1	22.9	0.1
Total Solids	SM 18 2540 G	wt%		50.1	0.05	60.88	0.050	55.82	0.05	67.47	0.050
Sulfate	EPA 9038	mg/kg-dry	1205	1,100	96	710	31	300	17	230	1.5
Sulfide	EPA 9030B	mg/kg-dry	628	790	10	400	8.2	690	8.9	220	7.5
Cyanide	EPA 9010B/9014	mg/kg-dry		0.68	0.18	0.21	0.15	0.35	0.0018	<0.15	0.15
Chloride	EPA 325.3	mg/kg-dry	11,225	13,000	100	8,300	82	7,700	180	6,800	150
TKN	EPA 351.3	mg/kg-dry	3,586	6,100	1,000	1,100	820	2,900	710	890	600
Nitrogen, Nitrate-Nitrite	EPA 353.2 SM 18 4500	mg/kg-dry		<0.50	0.50	2.7	0.82	2.6	0.86	1.7	0.75
Orthophosphate	PE	mg/kg-dry	5.69	1.6	0.20	1.4	0.16	2.0	0.18	0.52	0.15
Total Organic Carbon	MSA 29-3.5.2	wt%-dry	1.84	2.2	0.20	0.98	0.20	1.7	0.2	0.86	0.20
Mercury	EPA 7471A	mg/kg-dry	1.12	0.17	0.047	0.64	0.052	1.2	0.059	0.74	0.041
Herbicides											
2,4,-D	EPA 8151A	µg/kg-dry		<100	100	<82	82	<89	89	<75	75
2,4,5-TP (Silvex)		µg/kg-dry		<40	40	<33	33	<36	36	<30	30
2,3,7,8-TCDD	1613	ng/kg	2.45	2.9	1.0	0.64	0.1	1.6	1.0	1.2	1.0
2,3,7,8-TCDF		ng/kg									

*Average for 2005 sediments received. Values not calculated when any value was below detection.

Weanack Sediment
Earle Dredge Barge Composite

Analyses	Methods	Sample Date: Units	9/12/05		9/27/05		10/6/05		10/24/05	
			Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
pH										
Corrosivity	EPA 9045C	pH units	7.8	1.0	7.7	1.0	7.7	1.0	7.9	1.0
Temperature		C degrees	21.9	0.10	22.8	0.10	2.2	0.10	21.3	0.10
Total Solids	SM 18 2540 G	wt%	53.37	0.05	45.14	0.05	49.04	0.050	40.43	0.050
Sulfate	EPA 9038	mg/kg-dry	1,100	88	1,600	43	1,500	100	3,100	250
Sulfide	EPA 9030B	mg/kg-dry	730	9.4	860	22	230	10	1,100	12
Cyanide	EPA 9010B/9014	mg/kg	0.24	0.17	0.26	0.098	0.23	0.098	1.0	0.12
Chloride	EPA 325.3	mg/kg	10,000	190	17,000	220	12,000	10	15,000	250
TKN	EPA 351.3	mg/kg-dry	6,600	750	4,700	890	2,900	870	3,500	1,000
Nitrogen, Nitrate-Nitrite	EPA 353.2	mg/kg	1.7	0.87	<1.1	1.10	1.4	1.0	4.0	1.2
Orthophosphate	SM 18 4500 PE	mg/kg	13	0.94	12	0.22	14	1.0	1.0	0.25
Total Organic Carbon	MSA 29-3.5.2	wt%-dry	2	0.2	2.7	0.20	2.3	0.20	2.0	0.20
Mercury	EPA 7471A	mg/kg-dry	1.6	0.062	1.8	0.065	0.51	0.050	2.3	0.061
Herbicides										
2,4,-D	EPA 8151A	µg/kg-dry	<94	94	<110	110	<100	100	<120	120
2,4,5-TP (Silvex)		µg/kg-dry	<38	38	<44	44	<41	41	<50	50
2,3,7,8-TCDD	1613	ng/kg	7.02	1.0	1.33J	2.3	2.48	1.8	4.14	1.6
2,3,7,8-TCDF		ng/kg					2.72	1.8	6.72	2.4

J=below calibration range

Weanack Sediment
 Earle Dredge Barge Composite
 PAH's, SW-846 8310

Analyses	Methods	Units	8/2/05		8/10/05		8/22/05		8/29/05	
			Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
	PNA (8310)*									
Naphthalene		µg/kg	BDL	25.0	BRL	1.0	BDL	25.0	BDL	25.0
Acenaphthene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Acenaphthylene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Fluorene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Phenanthrene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Anthracene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Fluoranthene		µg/kg	BDL	25.0	2.0	0.20	BDL	25.0	BDL	25.0
Pyrene		µg/kg	BDL	25.0	3.0	0.20	BDL	25.0	BDL	25.0
Benzo(a)anthracene		µg/kg	BDL	25.0	1.0	0.20	BDL	25.0	BDL	25.0
Chrysene		µg/kg	BDL	25.0	1.0	0.20	BDL	25.0	BDL	25.0
Benzo(b)fluoranthene		µg/kg	BDL	25.0	BRL	0.10	BDL	25.0	BDL	25.0
Benzo(k)fluoranthene		µg/kg	BDL	25.0	1.0	0.20	BDL	25.0	BDL	25.0
Benzo(a)pyrene		µg/kg	BDL	2.5	6.0	0.10	BDL	2.5	BDL	2.5
Dibenzo(a,h)anthracene		µg/kg	BDL	25.0	3.0	0.20	BDL	25.0	BDL	25.0
Benzo(ghi)perylene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0
Indeno(1,2,3-cd)pyrene		µg/kg	BDL	25.0	BRL	0.20	BDL	25.0	BDL	25.0

Weanack Sediment
Earle Dredge Barge Composite
PAH's, SW-846 8310

Analyses	Methods	Units	9/12/05		9/27/05		10/6/05		10/24/05	
			Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
Naphthalene	PNA (8310)*	µg/kg	BDL	25.0	BDL	25.0	BDL	25.0	BDL	50.0
Acenaphthene		µg/kg	BDL	25.0	BDL	25.0	BDL	25.0	BDL	50.0
Acenaphthylene		µg/kg	BDL	25.0	BDL	25.0	BDL	25.0	BDL	50.0
Fluorene		µg/kg	BDL	25.0	BDL	25.0	80.0	25.0	BDL	50.0
Phenanthrene		µg/kg	BDL	25.0	BDL	25.0	BDL	25.0	900.0	50.0
Anthracene		µg/kg	BDL	25.0	BDL	25.0	BDL	25.0	BDL	50.0
Fluoranthene		µg/kg	BDL	25.0	BDL	25.0	300.0	25.0	1,400.0	50.0
Pyrene		µg/kg	BDL	25.0	BDL	25.0	100.0	25.0	600.0	50.0
Benzo(a)anthracene		µg/kg	BDL	25.0	BDL	25.0	40.0	25.0	500.0	50.0
Chrysene		µg/kg	BDL	25.0	BDL	25.0	200.0	25.0	500.0	50.0
Benzo(b)fluoranthene		µg/kg	BDL	25.0	BDL	25.0	60.0	25.0	BDL	50.0
Benzo(k)fluoranthene		µg/kg	BDL	25.0	BDL	25.0	100.0	25.0	BDL	50.0
Benzo(a)pyrene		µg/kg	BDL	2.5	BDL	2.5	100.0	2.5	BDL	5.0
Dibenzo(a,h)anthracene		µg/kg	BDL	25.0	BDL	25.0	500.0	25.0	BDL	50.0
Benzo(ghi)perylene		µg/kg	BDL	25.0	BDL	25.0	100.0	25.0	BDL	50.0
Indeno(1,2,3-cd)pyrene		µg/kg	BDL	25.0	BDL	25.0	100.0	25.0	BDL	50.0

Weanack Sediment
Earle Dredge Barge Composite
Pesticides & PCBs

		Sample Date:		8/2/05		8/10/05		8/22/05		8/29/05	
EPA Methods 8081A/8082	Units	Avg. Test Results	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	
alpha-BHC	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
beta-BHC	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
gamma-BHC	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
delta-BHC	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
Heptachlor	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
Aldrin	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
Heptachlor epoxide	ug/kg-dry	<96	<100	100	<82	82	<89	89	<75	75	
gamma-Chlordane	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
Endosulfan I	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
alpha-Chlordane	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
Dieldrin	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
4,4'-DDE	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
Endrin	ug/kg-dry	<194	<200	200	<160	160	<180	180	<150	150	
Endosulfan II	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
4,4'-DDD	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
Endrin aldehyde	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
Endosulfan sulfate	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
4,4'-DDT	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
Endrin Ketone	ug/kg-dry	<585	<600	600	<490	490	<540	540	<450	450	
Methoxychlor	ug/kg-dry	<963	<1,000	1,000	<820	820	<890	890	<750	750	
Technical Chlordane	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Toxaphene	ug/kg-dry	<5850	<6,000	6,000	<4,900	4,900	<5,400	5,400	<4,500	4,500	
Aroclor 1016	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1221	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1232	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1242	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1248	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1254	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Aroclor 1260	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	
Total PCBs	ug/kg-dry	<1938	<2,000	2,000	<1,600	1,600	<1,800	1,800	<1,500	1,500	

Weanack Sediment
Earle Dredge Barge Composite
Pesticides & PCBS

	Sample Date:	9/12/05		9/27/05		10/6/05		10/24/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit	Test Results	Reporting Limit
EPA Methods 8081A/8082	Units								
alpha-BHC	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
beta-BHC	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
gamma-BHC	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
delta-BHC	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
Heptachlor	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
Aldrin	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
Heptachlor epoxide	ug/kg-dry	<94	94	<110	110	<100	100	<120	120
gamma-Chlordane	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
Endosulfan I	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
alpha-Chlordane	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
Dieldrin	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
4,4'-DDE	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
Endrin	ug/kg-dry	<190	190	<220	220	<200	200	<250	250
Endosulfan II	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
4,4'-DDD	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
Endrin aldehyde	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
Endosulfan sulfate	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
4,4'-DDT	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
Endrin Ketone	ug/kg-dry	<570	570	<670	670	<610	610	<750	750
Methoxychlor	ug/kg-dry	<940	940	<1,100	1,100	<1,000	1,000	<1,200	1,200
Technical Chlordane	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Toxaphene	ug/kg-dry	<5,700	5,700	<6,700	6,700	<6,100	6,100	<7,500	7,500
Aroclor 1016	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1221	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1232	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1242	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1248	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1254	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Aroclor 1260	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500
Total PCBs	ug/kg-dry	<1,900	1,900	<2,200	2,200	<2,000	2,000	<2,500	2,500

Weanack Sediment

Earle Dredge Barge Composite

Semivolatile Organics

Method: EPA 8270C

	Sample Date:	8/2/05		8/10/05		
		Units	Test Results	Reporting Limit	Test Results	Reporting Limit
Bis(2-chloroethyl)ether		ug/kg-dry	<660	660	<540	540
Phenol		ug/kg-dry	<660	660	<540	540
2-Chlorophenol		µg/kg	<660	660	<540	540
1,3-Dichlorobenzene		µg/kg	<660	660	<540	540
1,4-Dichlorobenzene		µg/kg	<660	660	<540	540
1,2-Dichlorobenzene		µg/kg	<660	660	<540	540
Bis(2-chloroisopropyl)ether		µg/kg	<660	660	<540	540
2-Methylphenol		µg/kg	<660	660	<540	540
Hexachloroethane		µg/kg	<660	660	<540	540
N-Nitrosodi-n-propylamine		µg/kg	<660	660	<540	540
4-Methylphenol,3-ethylphenol		µg/kg	<660	660	<540	540
Nitrobenzene		µg/kg	<660	660	<540	540
Isophorone		µg/kg	<660	660	<540	540
2-Nitrophenol		µg/kg	<660	660	<540	540
2,4-Dimethylphenol		µg/kg	<660	660	<540	540
Bis(2-chloroethoxy)methane		µg/kg	<660	660	<540	540
2,4-Dichlorophenol		µg/kg	<660	660	<540	540
1,2,4-Trichlorobenzene		µg/kg	<660	660	<540	540
Naphthalene		µg/kg	<660	660	<540	540
4-Chloroaniline		µg/kg	<1,300	1,300	<1,100	1,100
Hexachlorobutadiene		µg/kg	<660	660	<540	540
4-Chloro-3-methylphenol		µg/kg	<1,300	1,300	<1,100	1,100
2-Methylnaphthalene		µg/kg	<660	660	<540	540
Hexachlorocyclopentadiene		µg/kg	<660	660	<540	540
2,4,6-Trichlorophenol		µg/kg	<660	660	<540	540
2,4,5-Trichlorophenol		µg/kg	<660	660	<540	540
2-Chloronaphthalene		µg/kg	<660	660	<540	540
2-Nitroaniline		µg/kg	<3,400	3,400	<2,800	2,800
Acenaphthylene		µg/kg	<660	660	<540	540
Dimethyl phthalate		µg/kg	<660	660	<540	540
2,6-Dinitrotoluene		µg/kg	<660	660	<540	540
Acenaphthene		µg/kg	<660	660	<540	540
3-Nitroaniline		µg/kg	<3,400	3,400	<2,800	2,800
2,4-Dinitrophenol		µg/kg	<3,400	3,400	<2,800	2,800
Dibenzofuran		µg/kg	<660	660	<540	540
2,4-Dinitrotoluene		µg/kg	<660	660	<540	540
4-Nitrophenol		µg/kg	<3,400	3,400	<2,800	2,800
Fluorene		µg/kg	<660	660	<540	540
4-Chlorophenyl phenyl ether		µg/kg	<660	660	<540	540
Diethyl phthalate		µg/kg	<660	660	<540	540
4-Nitroaniline		µg/kg	<3,400	3,400	<2,800	2,800
4,6-Dinitro-2-methylphenol		µg/kg	<3,400	3,400	<2,800	2,800
N-Nitrosodiphenylamine		µg/kg	<660	660	<540	540
4-Bromophenyl phenyl ether		µg/kg	<660	660	<540	540
Hexachlorobenzene		µg/kg	<660	660	<540	540

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Units	8/2/05		8/10/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit
Pentachlorophenol	µg/kg	<3,400	3,400	<2,800	2,800
Phenanthrene	µg/kg	<660	660	<540	540
Anthracene	µg/kg	<660	660	<540	540
Carbazole	µg/kg	<660	660	<540	540
Di-n-butyl phthalate	µg/kg	<660	660	<540	540
Fluoranthene	µg/kg	<660	660	<540	540
Pyrene	µg/kg	<660	660	<540	540
Butyl benzyl phthalate	µg/kg	<660	660	<540	540
3,3-Dichlorobenzidine	µg/kg	<1,300	1,300	<1,100	1,100
Benz(a)anthracene	µg/kg	<660	660	<540	540
Chrysene	µg/kg	<660	660	<540	540
Bis(2-ethylhexyl)phthalate	µg/kg	4,400	660	1,900	540
Di-n-octyl phthalate	µg/kg	<660	660	<540	540
Benzo(b)fluoranthene	µg/kg	<660	660	<540	540
Benzo(k)fluoranthene	µg/kg	<660	660	<540	540
Benzo(a)pyrene	µg/kg	<660	660	<540	540
Indeno(1,2,3-cd)pyrene	µg/kg	<660	660	<540	540
Dibenz(a,h)anthracene	µg/kg	<660	660	<540	540
Benzo(g,h,i)perylene	µg/kg	<660	660	<540	540

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Sample Date:	8/22/05		8/29/05	
		Units	Test Results	Reporting Limit	Test Results
Bis(2-chloroethyl)ether	µg/kg	<590	590	<490	490
Phenol	µg/kg	<590	590	<490	490
2-Chlorophenol	µg/kg	<590	590	<490	490
1,3-Dichlorobenzene	µg/kg	<590	590	<490	490
1,4-Dichlorobenzene	µg/kg	<590	590	<490	490
1,2-Dichlorobenzene	µg/kg	<590	590	<490	490
Bis(2-chloroisopropyl)ether	µg/kg	<590	590	<490	490
2-Methylphenol	µg/kg	<590	590	<490	490
Hexachloroethane	µg/kg	<590	590	<490	490
N-Nitrosodi-n-propylamine	µg/kg	<590	590	<490	490
4-Methylphenol,3-ethylphenol	µg/kg	<590	590	<490	490
Nitrobenzene	µg/kg	<590	590	<490	490
Isophorone	µg/kg	<590	590	<490	490
2-Nitrophenol	µg/kg	<590	590	<490	490
2,4-Dimethylphenol	µg/kg	<590	590	<490	490
Bis(2-chloroethoxy)methane	µg/kg	<590	590	<490	490
2,4-Dichlorophenol	µg/kg	<590	590	<490	490
1,2,4-Trichlorobenzene	µg/kg	<590	590	<490	490
Naphthalene	µg/kg	<590	590	<490	490
4-Chloroaniline	µg/kg	<1,200	1,200	<1,000	1,000
Hexachlorobutadiene	µg/kg	<590	590	<490	490
4-Chloro-3-methylphenol	µg/kg	<1,200	1,200	<1,000	1,000
2-Methylnaphthalene	µg/kg	<590	590	<490	490
Hexachlorocyclopentadiene	µg/kg	<590	590	<490	490
2,4,6-Trichlorophenol	µg/kg	<590	590	<490	490
2,4,5-Trichlorophenol	µg/kg	<590	590	<490	490
2-Chloronaphthalene	µg/kg	<590	590	<490	490
2-Nitroaniline	µg/kg	<3,000	3,000	<2,500	2,500
Acenaphthylene	µg/kg	<590	590	<490	490
Dimethyl phthalate	µg/kg	<590	590	<490	490
2,6-Dinitrotoluene	µg/kg	<590	590	<490	490
Acenaphthene	µg/kg	<590	590	<490	490
3-Nitroaniline	µg/kg	<3,000	3,000	<2,500	2,500
2,4-Dinitrophenol	µg/kg	<3,000	3,000	<2,500	2,500
Dibenzofuran	µg/kg	<590	590	<490	490
2,4-Dinitrotoluene	µg/kg	<590	590	<490	490
4-Nitrophenol	µg/kg	<3,000	3,000	<2,500	2,500
Fluorene	µg/kg	<590	590	<490	490
4-Chlorophenyl phenyl ether	µg/kg	<590	590	<490	490
Diethyl phthalate	µg/kg	<590	590	<490	490
4-Nitroaniline	µg/kg	<3,000	3,000	<2,500	2,500
4,6-Dinitro-2-methylphenol	µg/kg	<3,000	3,000	<2,500	2,500
N-Nitrosodiphenylamine	µg/kg	<590	590	<490	490
4-Bromophenyl phenyl ether	µg/kg	<590	590	<490	490

Weanack Sediment
 Earle Dredge Barge Composite
 Semivolatile Organics

Method: EPA 8270C	Units	Sample Date: 8/22/05		8/29/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit
Hexachlorobenzene	µg/kg	<590	590	<490	490
Pentachlorophenol	µg/kg	<3,000	3,000	<2,500	2,500
Phenanthrene	µg/kg	<590	590	<490	490
Anthracene	µg/kg	<590	590	<490	490
Carbazole	µg/kg	<590	590	<490	490
Di-n-butyl phthalate	µg/kg	<590	590	660	490
Fluoranthene	µg/kg	<590	590	<490	490
Pyrene	µg/kg	660	590	<490	490
Butyl benzyl phthalate	µg/kg	<590	590	<490	490
3,3-Dichlorobenzidine	µg/kg	<1,200	1,200	<1,000	1,000
Benz(a)anthracene	µg/kg	<590	590	<490	490
Chrysene	µg/kg	<590	590	<490	490
Bis(2-ethylhexyl)phthalate	µg/kg	<4,800	4,800	960	490
Di-n-octyl phthalate	µg/kg	<590	590	<490	490
Benzo(b)fluoranthene	µg/kg	<590	590	<490	490
Benzo(k)fluoranthene	µg/kg	<590	590	<490	490
Benzo(a)pyrene	µg/kg	<590	590	<490	490
Indeno(1,2,3-cd)pyrene	µg/kg	<590	590	<490	490
Dibenz(a,h)anthracene	µg/kg	<590	590	<490	490
Benzo(g,h,i)perylene	µg/kg	<590	590	<490	490

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Units	Sample Date: 9/12/05		9/27/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit
Bis(2-chloroethyl)ether	µg/kg-dry	<620	620	<730	730
Phenol	µg/kg-dry	<620	620	<730	730
2-Chlorophenol	µg/kg-dry	<620	620	<730	730
1,3-Dichlorobenzene	µg/kg-dry	<620	620	<730	730
1,4-Dichlorobenzene	µg/kg-dry	<620	620	<730	730
1,2-Dichlorobenzene	µg/kg-dry	<620	620	<730	730
Bis(2-chloroisopropyl)ether	µg/kg-dry	<620	620	<730	730
2-Methylphenol	µg/kg-dry	<620	620	<730	730
Hexachloroethane	µg/kg-dry	<620	620	<730	730
N-Nitrosodi-n-propylamine	µg/kg-dry	<620	620	<730	730
4-Methylphenol,3-ethylphenol	µg/kg-dry	<620	620	<730	730
Nitrobenzene	µg/kg-dry	<620	620	<730	730
Isophorone	µg/kg-dry	<620	620	<730	730
2-Nitrophenol	µg/kg-dry	<620	620	<730	730
2,4-Dimethylphenol	µg/kg-dry	<620	620	<730	730
Bis(2-chloroethoxy)methane	µg/kg-dry	<620	620	<730	730
2,4-Dichlorophenol	µg/kg-dry	<620	620	<730	730
1,2,4-Trichlorobenzene	µg/kg-dry	<620	620	<730	730
Naphthalene	µg/kg-dry	<620	620	<730	730
4-Chloroaniline	µg/kg-dry	<1,300	1,300	<1,500	1,500
Hexachlorobutadiene	µg/kg-dry	<620	620	<730	730
4-Chloro-3-methylphenol	µg/kg-dry	<1,300	1,300	<1,500	1,500
2-Methylnaphthalene	µg/kg-dry	<620	620	<730	730
Hexachlorocyclopentadiene	µg/kg-dry	<620	620	<730	730
2,4,6-Trichlorophenol	µg/kg-dry	<620	620	<730	730
2,4,5-Trichlorophenol	µg/kg-dry	<620	620	<730	730
2-Chloronaphthalene	µg/kg-dry	<620	620	<730	730
2-Nitroaniline	µg/kg-dry	<3,200	3,200	<3,800	3,800
Acenaphthylene	µg/kg-dry	<620	620	<730	730
Dimethyl phthalate	µg/kg-dry	<620	620	<730	730
2,6-Dinitrotoluene	µg/kg-dry	<620	620	<730	730
Acenaphthene	µg/kg-dry	<620	620	<730	730
3-Nitroaniline	µg/kg-dry	<3,200	3,200	<3,800	3,800
2,4-Dinitrophenol	µg/kg-dry	<3,200	3,200	<3,800	3,800
Dibenzofuran	µg/kg-dry	<620	620	<730	730
2,4-Dinitrotoluene	µg/kg-dry	<620	620	<730	730
4-Nitrophenol	µg/kg-dry	<3,200	3,200	<3,800	3,800
Fluorene	µg/kg-dry	<620	620	<730	730
4-Chlorophenyl phenyl ether	µg/kg-dry	<620	620	<730	730
Diethyl phthalate	µg/kg-dry	<620	620	<730	730
4-Nitroaniline	µg/kg-dry	<3,200	3,200	<3,800	3,800
4,6-Dinitro-2-methylphenol	µg/kg-dry	<3,200	3,200	<3,800	3,800
N-Nitrosodiphenylamine	µg/kg-dry	<620	620	<730	730

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Sample Date:	9/12/05		9/27/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit
	Units				
4-Bromophenyl phenyl ether	µg/kg-dry	<620	620	<730	730
Hexachlorobenzene	µg/kg-dry	<620	620	<730	730
Pentachlorophenol	µg/kg-dry	<3,200	3,200	<3,800	3,800
Phenanthrene	µg/kg-dry	<620	620	<730	730
Anthracene	µg/kg-dry	<620	620	<730	730
Carbazole	µg/kg-dry	<620	620	<730	730
Di-n-butyl phthalate	µg/kg-dry	650	620	<730	730
Fluoranthene	µg/kg-dry	<620	620	<730	730
Pyrene	µg/kg-dry	<620	620	<730	730
Butyl benzyl phthalate	µg/kg-dry	<620	620	<730	730
3,3-Dichlorobenzidine	µg/kg-dry	<1,300	1,300	<1,500	1,500
Benz(a)anthracene	µg/kg-dry	<620	620	<730	730
Chrysene	µg/kg-dry	<620	620	<730	730
Bis(2-ethylhexyl)phthalate	µg/kg-dry	3,700	620	<3,800	3,800
Di-n-octyl phthalate	µg/kg-dry	<620	620	<730	730
Benzo(b)fluoranthene	µg/kg-dry	<620	620	<730	730
Benzo(k)fluoranthene	µg/kg-dry	<620	620	<730	730
Benzo(a)pyrene	µg/kg-dry	<620	620	<730	730
Indeno(1,2,3-cd)pyrene	µg/kg-dry	<620	620	<730	730
Dibenz(a,h)anthracene	µg/kg-dry	<620	620	<730	730
Benzo(g,h,i)perylene	µg/kg-dry	<620	620	<730	730

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Sample Date:	10/6/05		10/24/05	
		Units	Test Results	Reporting Limit	Test Results
Bis(2-chloroethyl)ether	µg/kg-dry	<670	670	<820	820
Phenol	µg/kg-dry	<670	670	<820	820
2-Chlorophenol	µg/kg-dry	<670	670	<820	820
1,3-Dichlorobenzene	µg/kg-dry	<670	670	<820	820
1,4-Dichlorobenzene	µg/kg-dry	<670	670	<820	820
1,2-Dichlorobenzene	µg/kg-dry	<670	670	<820	820
Bis(2-chloroisopropyl)ether	µg/kg-dry	<670	670	<820	820
2-Methylphenol	µg/kg-dry	<670	670	<820	820
Hexachloroethane	µg/kg-dry	<670	670	<820	820
N-Nitrosodi-n-propylamine	µg/kg-dry	<670	670	<820	820
4-Methylphenol,3-ethylphenol	µg/kg-dry	<670	670	<820	820
Nitrobenzene	µg/kg-dry	<670	670	<820	820
Isophorone	µg/kg-dry	<670	670	<820	820
2-Nitrophenol	µg/kg-dry	<670	670	<820	820
2,4-Dimethylphenol	µg/kg-dry	<670	670	<820	820
Bis(2-chloroethoxy)methane	µg/kg-dry	<670	670	<820	820
2,4-Dichlorophenol	µg/kg-dry	<670	670	<820	820
1,2,4-Trichlorobenzene	µg/kg-dry	<670	670	<820	820
Naphthalene	µg/kg-dry	700	670	950	820
4-Chloroaniline	µg/kg-dry	<1,400	1,400	<1,700	1,700
Hexachlorobutadiene	µg/kg-dry	<670	670	<820	820
4-Chloro-3-methylphenol	µg/kg-dry	<1,400	1,400	<1,700	1,700
2-Methylnaphthalene	µg/kg-dry	<670	670	<820	820
Hexachlorocyclopentadiene	µg/kg-dry	<670	670	<820	820
2,4,6-Trichlorophenol	µg/kg-dry	<670	670	<820	820
2,4,5-Trichlorophenol	µg/kg-dry	<670	670	<820	820
2-Chloronaphthalene	µg/kg-dry	<670	670	<820	820
2-Nitroaniline	µg/kg-dry	<3,500	3,500	<4,200	4,200
Acenaphthylene	µg/kg-dry	<670	670	<820	820
Dimethyl phthalate	µg/kg-dry	<670	670	<820	820
2,6-Dinitrotoluene	µg/kg-dry	<670	670	<820	820
Acenaphthene	µg/kg-dry	<670	670	900	820
3-Nitroaniline	µg/kg-dry	<3,500	3,500	<4,200	4,200
2,4-Dinitrophenol	µg/kg-dry	<3,500	3,500	<4,200	4,200
Dibenzofuran	µg/kg-dry	<670	670	<820	820
2,4-Dinitrotoluene	µg/kg-dry	<670	670	<820	820
4-Nitrophenol	µg/kg-dry	<3,500	3,500	<4,200	4,200
Fluorene	µg/kg-dry	<670	670	<820	820
4-Chlorophenyl phenyl ether	µg/kg-dry	<670	670	<820	820
Diethyl phthalate	µg/kg-dry	<670	670	<820	820
4-Nitroaniline	µg/kg-dry	<3,500	3,500	<4,200	4,200
4,6-Dinitro-2-methylphenol	µg/kg-dry	<3,500	3,500	<4,200	4,200
N-Nitrosodiphenylamine	µg/kg-dry	<670	670	<820	820

Weanack Sediment
Earle Dredge Barge Composite
Semivolatile Organics

Method: EPA 8270C	Sample Date:	10/6/05		10/24/05	
		Test Results	Reporting Limit	Test Results	Reporting Limit
	Units				
4-Bromophenyl phenyl ether	µg/kg-dry	<670	670	<820	820
Hexachlorobenzene	µg/kg-dry	<670	670	<820	820
Pentachlorophenol	µg/kg-dry	<3,500	3,500	<4,200	4,200
Phenanthrene	µg/kg-dry	960	670	1,800	820
Anthracene	µg/kg-dry	<670	670	<820	820
Carbazole	µg/kg-dry	<670	670	<820	820
Di-n-butyl phthalate	µg/kg-dry	<670	670	<820	820
Fluoranthene	µg/kg-dry	1,000	670	2,800	820
Pyrene	µg/kg-dry	1,200	670	3,000	1,700
Butyl benzyl phthalate	µg/kg-dry	<670	670	<820	820
3,3-Dichlorobenzidine	µg/kg-dry	<1,400	1,400	<1,700	1,700
Benz(a)anthracene	µg/kg-dry	<670	670	970*	820
Chrysene	µg/kg-dry	<670	670	1,000*	820
Bis(2-ethylhexyl)phthalate	µg/kg-dry	4,400	670	5,500	1,700
Di-n-octyl phthalate	µg/kg-dry	<670	670	<820	820
Benzo(b)fluoranthene	µg/kg-dry	<670	670	<820	820
Benzo(k)fluoranthene	µg/kg-dry	<670	670	<820	820
Benzo(a)pyrene	µg/kg-dry	<670	670	<820	820
Indeno(1,2,3-cd)pyrene	µg/kg-dry	<670	670	<820	820
Dibenz(a,h)anthracene	µg/kg-dry	<670	670	<820	820
Benzo(g,h,i)perylene	µg/kg-dry	<670	670	<820	820

Weanack Sediment
Earle Dredge Barge Composite

AVG = 1.00

Potential Peroxide Acidity (PPA)
PPA results = Tons CaCO₃/1,000 Tons Material

Date	Batch #	Load #	PPA	Reruns	Date	Batch #	Load #	PPA	Reruns
08/05/05	1	1	2.86		09/12/05	5	26	0.6	
		2	9.69				27	1.37	
		3	4.35				27	1.34	
		4	6.97				28	0.12	
		5	1.49				28	0.12	
08/18/05	2	6	4.76				29	0	
		7	0.00				29	0.2	
		7	0.00				30	13.48	13.62
		8	0.42				30	15.54	
		8	0.26		10/04/05	6	31	0.88	
		9	0.42		31		0.65		
		9	0.40		32		0.42		
		10	0.11		32		0.33		
		10	0.00		33		0.48		
		11	0.36		33		0.00		
		11	0.38		34		0.00		
12	0.67		34	0.00					
12	1.20		35	0.35					
13	0.59		35	0.45					
08/25/05	3	13	0.74				36	0.99	
		14	1.18				36	0.64	
		14	1.36		10/13/05	7	37	0.46	
		15	0.91		37		0.35		
		15	0.67		38		0.69		
		16	1.08		38		0.50		
		16	1.09		39		0.36		
		17	0.56		39		0.22		
		17	0.42		40		0.16		
		18	1.03		40		0.12		
18	0.93		41	0.18	0.43				
19	0.84		41	2.09	4.96				
08/29/05	4	19	0.91				42	0.00	
		20	0.20				42	0.00	
		20	0.19		10/31/05	8	43	1.29	
		21	0.76		43		0.86		
		21	0.72		44		0.00		
		22	0.00		44		0.00		
		22	0.00		45		0.00		
		23	0.25		45		0.00		
		23	0.24		46		0.00		
		24	0.00		46		0.39		
24	0.00		47	0.00					
25	0.75		47	0.00					
09/12/05	5	25	0.72				48	0.00	
		26	0.6				48	0.00	

Weanack Sediment

Calcium Carbonate Equivalence % CCE

Date	Load #s	CCE	10/20/05	
			rerun	Batch #
10/6/05	5	1.42		1
10/6/05	7	5.38	-1.03	2
10/6/05	10	3.20		2
10/6/05	20	4.62		4
10/6/05	22	4.97		4
10/6/05	23	3.97		4
10/6/05	24	3.91		4
10/6/05	28	2.16		5
10/6/05	29	6.03		5
10/20/05	33	8.50		6
10/20/05	34	8.75		6
10/20/05	40	5.75		7
10/20/05	41	9.13		7
10/20/05	42	12.75		7
11/1/05	44	6.62		8
11/1/05	45	7.84		8
11/1/05	46	5.15		8
11/1/05	47	18.13		8
11/1/05	48	2.45		8
1/17/06	51	19.85		9
1/17/06	52	15.56		9
1/17/06	53	1.23		9
1/17/06	54	3.92		9
1/17/06	55	2.70		10
	AVG	6.83		

ATTACHMENT 2

Agricultural Soil Analyses

Woodrow Wilson Bridge Agricultural Soil Analyses

Sampled in June 2005

Sample

Location	A-1	A-1	A-2	A-2	A-3	A-3	B-1	B-1	B-2	B-2
Depth in inches	0-6	60	0-6	60	0-6	60	0-6	60	0-6	60
Total % Sand	42	18	14	20	20	41	19	14	12	26
Total % Silt	39	58	65	53	57	40	62	52	50	52
Total % Clay	19	24	21	27	23	19	19	34	38	22
Textural Class	L	SIL	SIL	SIL	SIL	L	SIL	SICL	SICL	SIL

Routine Testing

pH	6.59	7.07	6.72	7.13	6.42	7.38	6.52	7.13	7.29	7.26
	mg/kg - dilute acid extractable									
P	30	20	25	24	19	11	30	27	8	26
K	263	47	176	44	173	45	260	44	102	38
Ca	1794	2920	2277	2717	2497	2547	2499	2938	3191	2747
Mg	204	206	232	198	249	202	203	161	216	171
Zn	24	64	36	69	29	47	35	53	20	56
Mn	70	143	63	118	71	127	65	134	70	131
Cu	4.6	9.1	6.2	13	5	8	5.1	10.6	3.7	9.4
Fe	146	377	137	397	133	388	127	343	88	371
B	0.6	0.6	0.6	0.5	0.7	0.4	0.6	0.6	0.8	0.6

Woodrow Wilson Bridge Agricultural Soil Analyses

Sampled in June 2005

Sample

Location	B-3	B-3	B-4	B-4	C-1	C-1	C-2	C-2	C-3	C-4
Depth in inches	0-6	60	0-6	60	0-6	60	0-6	60	0-6	0-6
Total % Sand	16	23	26	73	35	37	17	11	42	52
Total % Silt	64	52	58	18	51	49	60	67	47	47
Total % Clay	20	25	16	9	14	14	23	22	11	1
Textural Class	SIL	SIL	SIL	SL	SIL	SIL/L	SIL	SIL	L	SL

Routine Testing

pH	7.55	7.10	7.52	6.96	6.94	7.27	7.28	7.44	7.35	7.04
	mg/kg - dilute acid extractable									
P	9	10	8	19	30	24	7	11	19	10
K	43	83	82	43	247	45	114	52	86	11
Ca	3176	1865	3356	757	2076	2226	3278	2424	2483	283
Mg	198	162	197	73	198	151	223	148	159	25
Zn	18	17	16	6.2	33	39	20	20	14	2.4
Mn	73	143	75	72	74	69	75	134	72	22
Cu	3.8	6.6	3.1	3.4	6.7	9.2	3.8	6	3.4	0.9
Fe	106	319	83	192	153	262	83	273	169	77
B	0.8	0.5	0.7	0.2	0.6	0.5	0.8	0.5	0.6	0.1

Woodrow Wilson Bridge Agricultural Soil Analyses

Sampled in June 2005

Sample

Location	C-4	C-5	C-5	D-3	D-4	D-4	D-5	D-5	D-6	D-6
Depth in inches	60	0-6	60	0-6	0-6	60	0-6	60	0-6	60
Total % Sand	53	36	13	15	76	18	28	17	25	21
Total % Silt	28	55	65	70	19	61	58	61	61	58
Total % Clay	19	9	22	15	5	21	14	22	14	21
Textural Class	SL	SIL	SIL	SIL	LS	SIL	SIL	SIL	SIL	SIL

Routine Testing

pH	6.37	7.41	7.51	7.26	7.50	7.28	7.47	7.33	7.24	7.41
	mg/kg - dilute acid extractable									
P	11	12	21	10	33	11	11	17	12	18
K	50	56	44	96	66	50	85	44	95	48
Ca	762	3045	2603	3059	1943	2508	3119	2971	3339	2862
Mg	150	172	175	199	95	163	168	162	183	168
Zn	4.0	16	37	20	12	28	17	38	16	31
Mn	59	75	107	70	77	127	72	132	68	139
Cu	2.7	5.4	9.0	3.9	2.2	7.0	3.0	8.1	2.7	7.6
Fe	106	136	175	99	275	265	101	251	97	285
B	0.2	0.6	0.6	0.8	0.2	0.5	0.7	0.6	0.7	0.6

ATTACHMENT 3

Detailed Water Quality Analyses

Weanack Water Analyses			Sample Date: 4/27/05								
April 2005			Well ID: SDS-2 SDS-3 SW-30 SW-31 4/27/05 SP Well-drinking 4/27/05 FB-drinking 4/27/05 SW2								
Analyses	Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results	Results
Iron	Total Metals	EPA-200.7	0.010	mg/l	11	2.7	8.1	28.0	<0.10	<0.10	1.7
Aluminum		EPA-200.8	0.10	mg/l	13	1.7	4.1	22	<0.10	<0.10	1.50
Antimony			0.0050	mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Arsenic			0.0020	mg/l	0.0022	<0.0020	<0.0020	0.0028	<0.0050	<0.0020	0.0029
Beryllium			0.0050	mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0025	<0.0025	<0.0050
Cadmium			0.00050	mg/l	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chromium			0.0025	mg/l	0.0073	<0.0025	0.0053	0.018	<0.0025	<0.0025	<0.0025
Copper			0.0020	mg/l	0.0093	0.0025	0.0045	0.014	<0.0020	<0.0020	0.0021
Lead			0.0020	mg/l	0.0057	0.0027	<0.0020	0.0095	<0.0020	<0.0020	<0.0020
Nickel			0.0020	mg/l	0.015	0.004	0.0046	0.016	<0.0020	<0.0020	0.0023
Selenium			0.0050	mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Silver			0.0010	mg/l	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium			0.0020	mg/l	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Zinc			0.020	mg/l	0.041	<0.020	0.021	0.055	<0.020	<0.020	<0.020
Mercury		EPA-245.1	0.00020	mg/l	<0.00020	<0.00020	<0.00020	0.00026	<0.00020	<0.00020	<0.00020
Nitrate Plus Nitrite (N)	Nitrate/Nitrite	EPA-353.2	0.050	mg/l	<0.050	2.3	<0.050	0.072	<0.050	0.14	<0.050
Nitrogen, Total Kjeldahl (N)	TKN	EPA-351.3	1.0	mg/l	1.7	1.1	1.5	1.1	1.1	<1.0	1
Total Organic Carbon	TOC	EPA-415.1	1.0	mg/l	2.9	3.1	3.4	2.5	<0.50	0.73	7.9
Ortho Phosphorus	Orthophosphate	SM 4500 PE	0.010	mg/l	<0.010	0.031	0.012	0.011	0.31	<0.010	<0.010
Sulfate	Sulfate	EPA-375.4	5.0	mg/l	190	87	38	47			44
Total Sulfide -S	Sulfide	EPA-376.1	1.0	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Cyanide	Total Cyanide	EPA-335.2	0.0010	mg/l	0.0032	0.0027	0.0018	0.0056	0.0028	0.0023	<0.0010

* FB1 = Field Equipment Blank

Note: Sulfate testing on drinking water is done with test EPA-300.0 with a report limit of 5

Weanack Water Analyses			Sample Date: 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05									
April 2005			Well ID: SDS-2 SDS-3 SW-30 SW-31 SP Well-drinking FB-drinking SW-2									
Analyses	Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results	Results	
Alachlor	Pesticides	EPA-507	0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Atrazine			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Butachlor			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Metolachlor			0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Metribuzin			0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Simazine			0.07	µg/l	<0.07	<0.07	<0.07	<0.07	<0.07	0.10	<0.07	<0.07
Aldrin			EPA-508	0.02	µg/l							
2,3,7,8-TCDD	Dioxin (2,3,7,8, TCDD)	EPA-1613B	5	pg/l	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
1,2-Dibromo-3-chloropane	Microextractables	EPA-504.1	0.02	µg/l	<.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
1,2-Dibromoethane (EDB)			0.01	µg/l	<.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dalapon	Herbicides	EPA-515.1	1	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Dicamba			0.50	µg/l	<.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2,4-Dichlorophenoxyacetic acid (2,4-D)			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	
Dinoseb			0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Pentachlorophenol			0.04	µg/l	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
Picloram			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Silvex			0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Benzo(a)pyrene	Semi-Volatiles	EPA-525.2	0.02	µg/l	<.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Bis(2-ethylhexyl)adipate			0.60	µg/l	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	
Bis(2-ethylhexyl)phthalate			0.60	µg/l	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	
Butachlor			2.0	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Metolachlor			5.0	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Metribuzin			2.0	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	

Weanack Water Analyses

April 2005

Analyses

Sample Date: 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05

Well ID: SDS-2 SDS-3 SW-30 SW-31 SP Well-drinking FB-drinking SW-2

Parameters	Method	Reporting		Results	Results	Results	Results	Results	Results	Results	
		Limits	Units								
Propachlor	Semi-Volatiles	EPA-525.2	4.0	µg/l	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Atrazine			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Alachlor			0.20	µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Simazine			0.07	µg/l	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	
Hexachlorobenzene			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Hexachlorocyclopentadiene			0.10	µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Aldicarb	Carbamates	EPA-531.1	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Aldicarb sulfone			0.8	µg/l	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
Aldicarb sulfoxide			0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbaryl			0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbofuran			0.8	µg/l	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	
3-Hydroxycarbofuran			0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Methomyl	Glyphosate	EPA-547	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Oxamyl			2	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Glyphosate			10	µg/l	<10	<10	<10	<10	<10	<10	
Endothall			Endothall	EPA-548.1	5	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0
Diquat					Diquat	EPA-549.2	0.4	µg/l	<0.4	<0.4	<0.4

Weanack Water Analyses

April 2005

Analyses

Parameters

Method

Reporting
Limits

Sample Date:

Well ID:

Units

4/28/05

4/28/05

4/28/05

4/28/05

4/28/05
SP Well-
drinking

4/28/05
FB-
drinking

4/28/05

Results

Results

Results

Results

Results

Results

Results

Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results	Results
	SW-846									
Naphthalene	PAH	8310	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acenaphthylene			µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acenaphthene			µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Fluorene			µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene			µg/l	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Anthracene			µg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene			µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene			µg/l	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(a)anthracene			µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chrysene			µg/l	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Benzo(b) fluoranthene			µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene			µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo(a)pyrene			µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dibenzo(a,h)anthracene			µg/l	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Benzo(ghi)perylene			µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno (1,2,3-cd)pyrene			µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Weanack Water Analyses			Sample Date: 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05 4/28/05								
April 2005			Well ID: SDS-2 SDS-3 SW-30 SW-31 SP Well-drinking FB-drinking SW2								
Analyses	Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results	Results
AMA Analytical Services	Asbestos	TEM-USEPA & NY ELAP Method 198.2									
Fiber Count											
Total Fiber					NAD	NAD	1 Chry	NAD	NAD	NAD	NAD
Long Fibers					NAD	NAD	NAD	NAD	NAD	NAD	NAD
Total Fiber Conc. (MFL)											
Mean					<43.2	<21.5	<65.2	<43.2	<0.716	<0.716	<0.716
95% UCL					43.2	21.5	65.2	43.2	0.716	0.716	0.716
95% LCL					N/A	N/A	N/A	N/A	N/A	N/A	N/A
Long Fiber Conc. (MFL)											
Mean					<43.2	<21.5	<43.2	<43.2	<0.716	<0.716	<0.716
95% UCL					43.2	21.5	43.2	43.2	0.716	0.716	0.716
95% LCL					N/A	N/A	N/A	N/A	N/A	N/A	N/A

Weanack Water Analyses Earle Basin Baseline Samples		Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
		Well ID:	SW 43	SEW 51	SEW 52	SEW 53	SEW 54	SEW 54	FB
Analyses	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Aluminum	EPA-6010B	0.10	mg/l	3.2	4.9	6.5	9.4	7.0	<0.20
Iron		0.010	mg/l	4.1	12	7.1	17	8.3	0.053
Antimony	SW846 6020	0.010	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic		0.0080	mg/l	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Beryllium		0.010	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium		0.0020	mg/l	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chromium		0.010	mg/l	0.014	0.017	0.033	0.037	0.021	0.01
Copper		0.0080	mg/l	<0.0080	<0.0080	0.018	0.017	0.013	<0.0080
Lead		0.0080	mg/l	<0.0080	<0.0080	0.01	0.011	0.012	<0.0080
Nickel		0.0080	mg/l	<0.0080	0.016	0.02	0.024	0.012	<0.0080
Selenium		0.020	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver		0.0040	mg/l	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040
Zinc		0.080	mg/l	<0.080	0.080	0.088	0.082	<0.080	<0.080
Mercury	EPA-7470A	0.00020	mg/l	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nitrate Plus Nitrite (N)	EPA-353.2	0.25/050	mg/l	2.8	10	1.4	8.3	18	<0.050
Nitrogen, Total Kjeldahl (N)	EPA-351.3	1.0	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Organic Carbon	EPA-415.1	1.0	mg/l	2.60	<1.0	2.1	2	1.3	<1.0
Ortho Phosphorus	SM 4500 PE	0.010	mg/l	0.29	0.29	0.28	0.28	0.33	<0.010
Sulfate	EPA-9038	1.0	mg/l	26	14	19	20	3.4	<1.0
Total Sulfide (as S)	EPA-376.1	1.0	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Cyanide	EPA-9010B/9014	0.0010	mg/l	0.0011	0.0024	0.0017	0.0012	0.0015	<0.0010

Weanack Water Analyses		Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
Earle Basin Baseline Samples		Well ID:	GW SEW 51	GW SEW52	GW SEW53	GW SEW 54	GW SEW 43	DI Water FB	
Pesticides	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Acetochlor	EPA-507	0.20	µg/l	ND	ND	ND	ND	ND	ND
Alachlor		0.40	µg/l	ND	ND	ND	ND	ND	ND
Ametryn		0.20	µg/l	ND	ND	ND	ND	ND	ND
Atrazine		0.20	µg/l	ND	ND	ND	ND	ND	ND
Benfluralin		0.40	µg/l	ND	ND	ND	ND	ND	ND
Hexazinone		0.20	µg/l	ND	ND	ND	ND	ND	ND
Diuron		0.20	µg/l	ND	ND	ND	ND	ND	ND
Isophenphos		0.20	µg/l	ND	ND	ND	ND	ND	ND
Bromacil		0.20	µg/l	ND	ND	ND	ND	ND	ND
Butachlor		0.40	µg/l	ND	ND	ND	ND	ND	ND
Butylate		0.20	µg/l	ND	ND	ND	ND	ND	ND
Chlorpyrifos		0.20	µg/l	ND	ND	ND	ND	ND	ND
Cyanazine		0.40	µg/l	ND	ND	ND	ND	ND	ND
Deethylatrazine		0.20	µg/l	ND	ND	ND	ND	ND	ND
Dieisopropylatrazine		0.20	µg/l	ND	ND	ND	ND	ND	ND
Dimethenamid		0.40	µg/l	ND	ND	ND	ND	ND	ND
EPTC		0.30	µg/l	ND	ND	ND	ND	ND	ND
Ethalfuralin		0.40	µg/l	ND	ND	ND	ND	ND	ND
Fonofos		0.20	µg/l	ND	ND	ND	ND	ND	ND
Metolachlor		0.80	µg/l	ND	ND	ND	ND	ND	ND
Metribuzin		0.20	µg/l	ND	ND	ND	ND	ND	ND
Pendamethalin		0.40	µg/l	ND	ND	ND	ND	ND	ND
Phorate		0.20	µg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses			Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
Earle Basin Baseline Samples			Well ID:	GW SEW 51	GW SEW52	GW SEW53	GW SEW 54	GW SEW 43	DI Water FB
Pesticides	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Prometryn	EPA-507	0.20	µg/l	ND	ND	ND	ND	ND	ND
Prometon		0.30	µg/l	ND	ND	ND	ND	ND	ND
Propachlor		0.40	µg/l	ND	ND	ND	ND	ND	ND
Propazine		0.20	µg/l	ND	ND	ND	ND	ND	ND
Simazine		0.20	µg/l	ND	ND	ND	ND	ND	ND
Terbufos		0.50	µg/l	ND	ND	ND	ND	ND	ND
Triallate		0.40	µg/l	ND	ND	ND	ND	ND	ND
Trifluralin		0.40	µg/l	ND	ND	ND	ND	ND	ND
Aldrin	EPA-508	0.10	µg/l	ND	ND	ND	ND	ND	ND
Chlordane-alpha		0.10	µg/l	ND	ND	ND	ND	ND	ND
Chlordane-gamma		0.10	µg/l	ND	ND	ND	ND	ND	ND
Chlorneb		0.10	µg/l	ND	ND	ND	ND	ND	ND
Chlorobenzilate		0.10	µg/l	ND	ND	ND	ND	ND	ND
Chlorothalonil		0.10	µg/l	ND	ND	ND	ND	ND	ND
DCPA		0.10	µg/l	ND	ND	ND	ND	ND	ND
4,4'-DD		0.10	µg/l	ND	ND	ND	ND	ND	ND
4,d'-DDE		0.10	µg/l	ND	ND	ND	ND	ND	ND
4,4'-DDT		0.10	µg/l	ND	ND	ND	ND	ND	ND
Dieldrin		0.10	µg/l	ND	ND	ND	ND	ND	ND
Endosulfan I		0.10	µg/l	ND	ND	ND	ND	ND	ND
Endosulfan II		0.10	µg/l	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate		0.10	µg/l	ND	ND	ND	ND	ND	ND
Endrin		0.10	µg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses			Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
Earle Basin Baseline Samples			Well ID:	GW SEW 51	GW SEW52	GW SEW53	GW SEW 54	GW SEW 43	DI Water FB
Pesticides	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Endrin Aldehyde	EPA-508	0.10	µg/l	ND	ND	ND	ND	ND	ND
Etridiazole		0.10	µg/l	ND	ND	ND	ND	ND	ND
HCH-alpha		0.10	µg/l	ND	ND	ND	ND	ND	ND
HCH-beta		0.10	µg/l	ND	ND	ND	ND	ND	ND
HCH-delta		0.10	µg/l	ND	ND	ND	ND	ND	ND
HCH-gamma		0.10	µg/l	ND	ND	ND	ND	ND	ND
Heptachlor		0.10	µg/l	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide		0.10	µg/l	ND	ND	ND	ND	ND	ND
Hexachlorbenzene		0.10	µg/l	ND	ND	ND	ND	ND	ND
Methozychlor		0.10	µg/l	ND	ND	ND	ND	ND	ND
Cis-permethrin		0.10	µg/l	ND	ND	ND	ND	ND	ND
Propachlor		0.10	µg/l	ND	ND	ND	ND	ND	ND
Trifluralin		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1016		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1221		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1232		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1242		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1248		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1254		0.10	µg/l	ND	ND	ND	ND	ND	ND
Aroclor 1260		0.10	µg/l	ND	ND	ND	ND	ND	ND
Toxaphene		0.10	µg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses			Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
Earle Basin Baseline Samples			Well ID:	GW SEW	GW	GW	GW	GW	DI Water
Pesticides	Method	Reporting Limits	Units	51	SEW52	SEW53	SEW 54	SEW 43	FB
				Results	Results	Results	Results	Results	Results
Chlordane	EPA-508	0.10	µg/l	ND	ND	ND	ND	ND	ND
Aldicarb	EPA-531.1	0.70	µg/l	ND	ND	ND	ND	ND	ND
Aldicarb sulfone		0.70	µg/l	ND	ND	ND	ND	ND	ND
Aldicarb sulfoxide		0.70	µg/l	ND	ND	ND	ND	ND	ND
Carbaryl		10.0	µg/l	ND	ND	ND	ND	ND	ND
Carbofuran		4.0	µg/l	ND	ND	ND	ND	ND	ND
3-Hydroxycarbofuran		10.0	µg/l	ND	ND	ND	ND	ND	ND
Methomyl		50.0	µg/l	ND	ND	ND	ND	ND	ND
Oxamyl		20.0	µg/l	ND	ND	ND	ND	ND	ND
Endothall	EPA-548	10.0	µg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses	Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
		GW	GW	GW	GW	GW	GW	DI Water
Earle Basin Baseline Samples	Well ID:	SEW 51	SEW52	SEW53	SEW 54	SEW 43		FB

Analyses	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Acenaphthylene	PAH SW-846 8310	0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Anthracene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Benzo(a)pyrene		0.10	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Benzo(a)anthracene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Benzo(b) fluoranthene		0.10	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Benzo(ghi)perylene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Benzo(k)fluoranthene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Acenaphthene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Chrysene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Dibenzo(a,h)anthracene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Fluoranthene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Fluorene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Indeno (1,2,3-cd)pyrene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Naphthalene		1.0	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Phenanthrene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Pyrene		0.20	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Acenaphthylene	S-VOC 525.2	0.10	mg/l	ND	ND	ND	ND	ND	ND
Anthracene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Benzo(b) fluoranthene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene		0.10	mg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses	Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
		GW	GW	GW	GW	GW	GW	DI Water
Earle Basin Baseline Samples	Well ID:	SEW 51	SEW52	SEW53	SEW 54	SEW 43		FB

Analyses	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
	S-VOC								
Benzo(g,h,i)perylene	525.2	0.10	mg/l	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate		0.10	mg/l	ND	ND	ND	ND	ND	ND
Chrysene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate		0.10	mg/l	ND	ND	ND	ND	ND	ND
Diethylphthalate		0.10	mg/l	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)adipate		0.10	mg/l	ND	ND	ND	ND	ND	ND
Di(2-ethylhexyl)phthalate		0.10	mg/l	ND	ND	ND	ND	ND	ND
Dimethylphthalate		0.10	mg/l	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene		0.10	mg/l	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Fluorene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Hexachlorbenzene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Hexachloro cyclopentadiene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Indeno (1,2,3-cd) pyrene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Isophorone		0.10	mg/l	ND	ND	ND	ND	ND	ND
Pentachlorophenol		0.10	mg/l	ND	ND	ND	ND	ND	ND
Phenanthrene		0.10	mg/l	ND	ND	ND	ND	ND	ND
Pyrene		0.10	mg/l	ND	ND	ND	ND	ND	ND
	Chl. Acids								
2,4-D	(515.1)	0.10	µg/l	ND	ND	ND	ND	ND	ND
Dalapon		0.10	µg/l	ND	ND	ND	ND	ND	ND

Weanack Water Analyses		Sample Date:	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05
Earle Basin Baseline Samples		Well ID:	SEW 51	SEW52	SEW53	SEW 54	SEW 43	SEW 43	DI Water FB
Analysis	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
	Chl. Acids (515.1)								
2,4-DB		0.10	µg/l	ND	ND	ND	ND	ND	ND
Dicama		0.10	µg/l	ND	ND	ND	ND	ND	ND
Dichloroprop		0.10	µg/l	ND	ND	ND	ND	ND	ND
Dinoseb		0.10	µg/l	ND	ND	ND	ND	ND	ND
2,4,5-T		0.10	µg/l	ND	ND	ND	ND	ND	ND
2,4,5-TP		0.10	µg/l	ND	ND	ND	ND	ND	ND
Diquot	549	2.0	µg/l	ND	ND	ND	ND	ND	ND
DBCP	504.1	0.01	µg/l	ND	ND	ND	ND	ND	ND
EDB	504.1	0.01	µg/l	ND	ND	ND	ND	ND	ND
Glyphosate	547	70.0	µg/l	ND	ND	ND	ND	ND	ND
4,4' - DDT	8082	0.1	µg/l	ND	ND	ND	ND	ND	ND
Gamma-BHC	8082	0.1	µg/l	ND	ND	ND	ND	ND	ND
	Phenolics 8270								
Phenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
Pentachlorophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
4-Nitrophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
4-Methylphenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
3-Methylphenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2-Nitrophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2-Methylphenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2-Chlorophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,4-Dinitrophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,4-Dimethylphenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,4-Dichlorophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,4,6-Trichlorophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,4,5-Trichlorophenol		50	µg/l	BRL	BRL	BRL	BRL	BRL	BRL

Weanack Water Analyses			6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	6/29/05	
Earle Basin Baseline Samples			GW	GW	GW	GW	GW	DI Water	
Method			SEW 51	SEW52	SEW53	SEW 54	SEW 43	FB	
			Units						
2,3,7,8-TCDD	EPA-1613B	Reporting Limits	pg/l	0.6	0.68	1.5	0.86	1	0.44
2,3,7,8-TCDD	EPA-1613B	Results	pg/l	BRL	BRL	BRL	BRL	BRL	BRL
2,3,7,8-TCDF	EPA-1613B	Reporting Limits	pg/l	0.54	0.58	1.02	0.88	1	0.44
2,3,7,8-TCDF	EPA-1613B	Results	pg/l	BRL	BRL	BRL	BRL	BRL	BRL

Weanack Water Analyses
Fall 2005 All Wells

			Sample Date:		10/9/05	10/9/05	10/9/05	10/9/05	10/9/05	10/9/05
			Well ID:		SDS3	SW30	SW31	SP Well	SW2	SW43
Analyses	Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results
Aluminum	Total Metals	EPA-6010B	0.10	mg/l	6.6	0.14	0.44	<0.10	<0.10	1.8
Antimony			0.010	mg/l	<0.010	<0.010	<0.010	<0.0050	<0.0050	<0.010
Chromium			0.010	mg/l	<0.010	<0.010	<0.010	0.0028	0.0055	<0.010
Iron		EPA-6010B	0.010	mg/l	18	0.52	0.79	<0.10	<0.10	2.8
Thallium			0.020	mg/l	<0.020	<0.020	<0.020	<0.0020	<0.0020	<0.020
Arsenic		SW846 6020	0.0020	mg/l	<0.0020	<0.0020	<0.0020	<0.0020	0.0032	<0.0020
Beryllium			0.0025	mg/l	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Cadmium			0.00050	mg/l	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Copper			0.0020	mg/l	0.011	<0.0020	0.0024	0.018	0.0021	0.0022
Lead			0.0020	mg/l	0.0094	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Nickel			0.0020	mg/l	0.0095	<0.0020	0.01	<0.0020	0.0034	<0.0020
Selenium			0.0050	mg/l	<0.0050	<0.0050	0.0085	<0.0050	<0.0050	<0.0050
Silver			0.0010	mg/l	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010
Zinc			0.020	mg/l	0.025	<0.020	<0.020	<0.020	<0.020	0.032
Mercury		EPA-7470A	0.00020	mg/l	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nitrate Plus Nitrite (N)	Nitrate/Nitrite	EPA-353.2	0.05	mg/l	0.57	0.055	<0.050	0.098	0.06	3
Total Cyanide Nitrogen, Total Kjeldahl (N)	Total Cyanide	EPA-9010B	0.0010	mg/l	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Total Organic Carbon	TKN	EPA-351.3	1.0	mg/l	<1.0	2.2	<1.0	<1.0	2.0	<1.0
Ortho Phosphorus gamma-BHC (Lindane)	TOC	EPA-415.1	1.0	mg/l	4.7	3.9	2.5	<1.0	13	<1.0
Sulfate	Orthophosphate	SM 4500 PE	0.010	mg/l	0.11	0.044	0.082	0.320	0.13	0.026
Total Sulfide Sulfate	Pesticides & PCBs	EPA 8081A/8082	0.050	mg/l						
Sulfate	Sulfate	EPA-9038	1.0	mg/l	42	15	46		30	25
Total Sulfide Sulfate	Sulfide	EPA-376.1	1.0	mg/l	<1.0	6.1	<1.0	<1.0	<1.0	<1.0
Sulfate	Sulfate	EPA 300.0	5.0					11.1		

Weanack Water Analyses Fall 2005 All Wells			Sample Date:	10/9/05	10/9/05	10/9/05	10/9/05	10/9/05	10/9/05	10/9/05	10/9/05
			Well ID:	SEW 51	SEW 52	SEW 53	SEW 54	EB1	Field Blank		
Analyses	Parameters	Method	Reporting Limits	Units	Results	Results	Results	Results	Results	Results	Report Limit
Aluminum	Total Metals	EPA-6010B	0.10	mg/l	0.30	3.7	10	0.13	0.13	<0.10	0.1
Antimony			0.010	mg/l	<0.010	<0.010	<0.010	0.34	0.34	<0.0050	0.005
Chromium			0.010	mg/l	<0.010	<0.010	0.02	<0.050	<0.050	<0.0025	0.0025
Iron		EPA-6010B	0.010	mg/l	0.68	2.3	15	0.12	0.12	<0.10	0.10
Thallium			0.020	mg/l	<0.020	<0.020	<0.020	<0.10	<0.10	<0.0020	0.002
Arsenic		SW846 6020	0.0020	mg/l	<0.0020	<0.0020	<0.0020	0.0570	0.0570	<0.0020	0.002
Beryllium			0.0025	mg/l	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.0025
Cadmium			0.00050	mg/l	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0005
Copper			0.0020	mg/l	0.0021	0.0077	0.015	0.038	0.038	<0.0020	0.002
Lead			0.0020	mg/l	<0.0020	<0.0020	0.007	0.0022	0.0022	<0.0020	0.002
Nickel			0.0020	mg/l	0.0027	0.011	0.011	0.0028	0.0028	<0.0020	0.002
Selenium			0.0050	mg/l	<0.0050	<0.0050	<0.0050	0.068	0.068	<0.0050	0.005
Silver			0.0010	mg/l	<0.0010	<0.0010	<0.0010	0.0043	0.0043	<0.0010	0.001
Zinc			0.020	mg/l	0.028	0.023	0.05	<0.020	<0.020	0.02	0.02
Mercury		EPA-7470A	0.00020	mg/l	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020
Nitrate Plus Nitrite (N)	Nitrate/Nitrite	EPA-353.2	0.05	mg/l	2.2	2.8	2.0	<0.050	<0.050	<0.050	0.05
Total Cyanide	Total Cyanide	EPA-9010B	0.0010	mg/l	<0.0010	<0.0010	<0.0010	0.0020	0.0020	<0.0010	0.0010
Nitrogen, Total Kjeldahl (N)	TKN	EPA-351.3	1.0	mg/l	<1.0	<1.0	<1.0	8.4	8.4	<1.0	1
Total Organic Carbon	TOC	EPA-415.1	1.0	mg/l	<1.0	1.5	1.2	29	29	<1.0	1
Ortho Phosphorus	Orthophosphate	SM 4500 PE	0.010	mg/l	0.035	<0.010	0.013	0.65	0.65	<0.010	0.01
gamma-BHC (Lindane)	Pesticides & PCBS	EPA 8081A/8082	0.050	µg/l	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.05
Total Sulfide (S)	Sulfide	EPA-376.1	1.0	mg/L	<1.0	<1.0	<1.0	1.0	1.0	<1.0	1
Sulfate	Sulfate	EPA 300.0								ND	5.0

Weanack 2005

Water levels in monitoring wells

(elevation in ft)

	1/26/05	4/25/05	7/14/05	10/22/05	1/16/06
SDS 2	13.19	12.20	9.60	9.38	12.48
SDS 2D	6.14	5.94	5.04	4.19	7.82
SDS 3	9.51	8.34	8.24	7.55	9.16
SDS 4D	6.9	6.58	4.35	3.2	5.23
SDS 5	6.49	5.63	4.57	3.3	6.97
SDS 5P	6.38	5.72	4.32	3.37	5.94
SDS 9A	6.36	6.22	5.09	4.16	4.75
SDS 9B	5.36	5.23	4.09	na	na
SDS 10	9.52	9.42	7.38	6.28	8.49
SDS 11	3.33	3.04	na	3.18	na
SDS 18	16	14.22	14.13	8.61	15.98
SDS 21	8.39	7.72	6.62	5.82	8.32
SW 30	3.82	3.93	3.41	2.97	3.1
SW 31	6.37	5.61	4.29	3.22	3.81
SW 32	3.45	2.81	3.87	3.71	2.99
SW 33	5.01	4.64	3.21	2.44	4.62
SW 34	3.31	3.42	2.95	2.61	2.62
SSG 2	8.71	dry	dry	dry	dry
SSG 3	na	na	na	na	15.25
SW42DV	3	3.04	2.57	2.26	2.2
SW43	11.6	11.75	12.13	11.72	11.77
SW44	9.52	8.96	7.75	6.41	8.41
SW46	na	na	na	na	1.68
SW47	12.48	12.76	na	9.07	9.07
SW48	5.75	5.2	3.63	2.06	2.06
SEW51	na	na	6.37	5.91	5.68
SEW52	na	na	2.52	2.4	4.33
SEW53	na	na	2.87	2.69	2.59
SEW54	na	na	9.6	9.35	9.27
SEW55	na	na	na	na	8.33
SEW56	na	na	8.75	8.33	8
SSG5	na	na	na	na	29.5

na = not available

Weanack 2005
Water pH in field

	1/26/05	4/25/05	7/14/05	10/22/05	1/16/06
SDS 2*	5.51	5.52	na	na	na
SDS 3	5.68	5.54	5.65	5.92	5.71
SW 30	6.58	6.7	6.53	6.6	6.05
SW 31	6.35	6.08	6.07	5.88	5.74
SW43*	na	na	5.46	5.64	5.55
SSG 2	6.48	dry	dry	dry	dry
SSG 3	7.57	8.65	7.5	8.51	8.43
SPWell	7.7	7.5	7.83	7.99	7.63
SEW51	na	na	5.21	5.27	5.27
SEW52	na	na	6.05	5.85	5.85
SEW53	na	na	5.56	5.54	5.54
SEW54	na	na	6.73	6.09	6.09
SSG5	na	na	na	8.76	8.95

na = not available

* SW 43 replaced SDS 2 as upgradient well after April 2005

Weanack 2005
Electrical conductance of water samples in field

	EC uS/cm				
	1/26/05	4/25/05	7/14/05	10/22/05	1/16/06
SDS 2*	303	351	na	na	na
SDS 3	168	195.6	256	234	183
SW 30	604	475	476	666	895
SW 31	312	278	341	426	658
SW 43*	na	na	199	266	341
SSG 2	237	dry	dry	dry	dry
SSG 3	382	329	255	311	493
SPWell	468	436	440	417	464
SEW51	na	na	216	213	213
SEW52	na	na	255	237	237
SEW53	na	na	279	285	285
SEW54	na	na	349	342	342
SSG5	na	na	na	16,660	15,350

na = not available

* SW 43 replaced SDS 2 as upgradient well after April 2005

Weanack DOC 2004/2005

mg/l	SDS 2	SDS 3	SDS 5	SDS 9A	SDS 10	SDS 11	SDS 17	SDS 18	SDS 21	SW 2
1/14/04	10.3	20.9								
2/28/04	7.56	5.32			11.60					
3/31/04	8.36	14.00			19.40					
4/28/04	8.94	3.78			13.40					
5/26/04	6.21	13.20			12.00					
6/18/04	8.27	12.70			10.80					
7/14/04	8.90	15.40	3.96		12.20	10.90	18.40	8.72	4.36	
8/17/04	9.87	6.55	6.86	14.80	11.80	9.68	19.40		5.84	
1/26/05	5.8	3.1								
4/25/05	3.19	2.46								7.56
4/25/05	3.19	2.46								7.56
7/14/05		3.13								10.1
10/22/05		5.77								12.8

Weanack DOC 2004/2005

mg/l	SW 18	SW 30	SW 31	SW 32	SW 33	SW 34	SW 43	SSG 1	SSG 2	SSG 3
1/14/04		9.63	14.1						14.60	13.4
2/28/04		4.13	14.70						13.30	6.71
3/31/04		4.41	10.90						10.10	7.84
4/28/04		10.80	2.41							15.90
5/26/04		3.69	4.07							10.40
6/18/04		3.81	12.70							7.78
7/14/04		4.42	11.00	11.20		7.55				15.80
8/17/04	15.70	4.56	13.10	16.10		9.00				16.70
1/26/05			6.2						5.8	5.9
4/25/05		3.88	2.9							
4/25/05		3.88	2.90							
7/14/05		4.38	3.07				2.1			
10/22/05		4.89	3.04				1.17			

Weanack DOC 2004/2005						
mg/l	SW5-EB1	SPWell	SEW 51	SEW 52	SEW 53	SEW 54
1/14/04		16.5				
2/28/04		1.68				
3/31/04		1.71				
4/28/04		13.1				
5/26/04		12.4				
6/18/04		11.8				
7/14/04		12.8				
8/17/04		9.18				
1/26/05		1.2				
4/25/05		1.14				
4/25/05		1.14				
7/14/05		1.53	1.21	2.88	2.17	1.16
10/22/05	10.6	0.73	1.22	2.10	1.56	1.30