Progress Report 2
October 2, 2009 through November 6, 2009
for
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

(USEPA No. NJD980529879)

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Section 1 – Introduction

This progress report for the West Riser Tide Gate Sediment Removal Action located in the Boroughs of Wood-Ridge and Carlstadt, New Jersey summarizes the status of remedial actions being performed as described in the West Riser Sediment Removal Action Work Plan (SRAWP), approved by the United States Environmental Protection Agency (USEPA) on September 9, 2009. The progress report covers the period from October 2, 2009 to November 6, 2009. The progress report is being submitted pursuant to the Administrative Consent Order (ACO) between Morton International, Inc. and the USEPA as well as the monthly progress reporting requirements of the SRAWP. This report has been prepared in a similar format as that used for the remedial action underway at the adjacent Ventron/Velsicol site.

The components of the remedial action presented in the SRAWP are as follows:

- Cofferdam construction
- By-pass pumping system installation and operation
- Monitoring
- Sediment removal; and
- Site restoration

The progress report is organized as follows:

- Section 1 – Introduction;
- Section 2 – Remedial Actions Summary;
- Section 3 – Permitting Application Status; and
- Section 4 – Sampling Results and Waste Generated

Section 2 – Remedial Actions Summary

2.1 Remedial Actions Status

This section summarizes the status of remedial actions at the Site for the reporting period. **Table 1**, attached, provides a summary of remedial actions and the status of each. Remedial actions performed during this period include:

- Cofferdams construction:
  - The height of the downstream cofferdam was increased by 6 inches.
  - Cofferdam removal was initiated and completed this period.
- By-pass Pumping System Installation and Operation
  - Installation of the by-pass system was completed.
  - The system was operated while the cofferdams were in place.
  - The by-pass pumping system was removed during this period. The wet well was backfilled and the wet well sheet piling was extracted. The by-pass system pumping equipment and piping were removed from the Site.
- Sediment Removal and Backfilling
  - Sediment excavation was completed in all five work zones.
  - Clean backfill was placed to grade in all work zones.
  - Rip-rap was installed upstream of the existing tide gate for erosion and scour protection. Rip-rap was installed in the channel bottom 10 feet upstream of the existing tide gate. This rip-rap was installed to a depth of two feet. Rip-rap was installed along the channel banks 50 feet upstream of the existing tide gate. This rip-rap was installed up the banks to the mean high water line, elevation 3.4 (NGVD1929).
  - Rip-rap was installed between the downstream cofferdam and the existing tide gate for erosion and scour protection. Rip-rap was installed to a depth of two feet across the majority of the area, with all locations having a minimum of 18 inches of depth. Depth was limited in some areas to ensure clearance between the rip-rap and the flap gates of the existing tide gate.
  - Rip-rap was installed along approximately 75 feet of the western bank of the river near the upstream cofferdam where the West Riser makes a sharp bend. Rip-rap was installed to a depth of 2 feet for scour and erosion protection.
  - Excavated sediment is currently stockpiled on site pending disposal.
- Site Restoration
  - Site restoration was conducted. Topsoil, seed, and erosion control were installed above elevation 3.4 (NGVD1929) on the east bank. Areas above elevation 3.4 on the west bank will be restored as part of the 55-foot buffer of the Ventrol/Velsicol project. Restoration of areas below elevation 3.4 will be performed at a later time, as described below in Section 2.2.

2.2 Deviations and Modifications

During this period, Morton was informed by the New Jersey Meadowlands Commission (NJMC) that the existing tide gate would not be replaced as scheduled. The final plantings will be performed in the Spring of 2010 as described in the SRAWP pending tide gate replacement in early 2010.

Additionally, rip-rap was installed for erosion and scour protection as described above in Section 2.1. This design change was made as a result of the delay in replacing the existing tide gate. Rip-rap was installed in such a way as to not alter the design backfill grades.

2.3 Remedial Actions to be Performed Next Period

The following remedial actions are scheduled to be performed during the next reporting period (November 6, 2009 to December 4, 2009):

- Related Site Activities
  - Load Out Stabilized Sediment
    - Excavated sediment will be stabilized and taken off-site to a waste facility.
  - Decontamination and Demobilization
    - Site equipment will be decontaminated for sediment contaminants and taken off-site.

2.4 Schedule of Remedial Activities

The schedule of West Riser SRAWP remedial activities at the Site is provided in **Attachment 1**.

2.5 Problems or Delays

There were no problems or delays this period. Final planting will be performed after the tide gate has been replaced and flow data has been collected as described in the Design Memorandum.

Section 3 – Permit Application Status

The permit application status for the project is presented in **Table 2.** No permit applications were submitted in this progress report period.

Section 4 – Sampling Results and Waste Generated

4.1 Sampling Results

This section summarizes sampling results obtained during the reporting period. Sampling was performed as part of the following programs:

- Construction Water Treatment Plant (CWTP) compliance testing;
- Total suspended solids and mercury (total and dissolved) analysis in Berry's Creek/West Riser; and
- Waste Characterization Testing.

Testing of treated water from the CWTP was performed in accordance with permit number SRP PI G000004547 dated February 9, 2009. This testing is required on a weekly basis when the plant is discharging effluent. Additionally, testing was performed as required before contact water from the West Riser Sediment Removal Action can be treated and discharged. Testing results are included in **Attachment 2.**

Testing of Berry Creek/West Riser surface water was conducted according to the water monitoring guidelines of the SRAWP. During construction, samples were taken at the downstream location only. Low water levels upstream of the site prevented sampling of the upstream location during construction. Total suspended solids and mercury concentration (total and dissolved) data were recorded. One water column sample from two locations was taken during ebb and flow tides. The samples were tested for low level mercury and total suspended solids using EPA method 1631 and 160.2 respectively. A baseline monitoring period was established from August 12, 2009 to August 31, 2009 while the construction monitoring period ran from September 1, 2009 through present. A table summarizing the testing results is included as **Table 3.**

Waste characterization testing was performed as part of the Sediment Removal Action. Approximately 4,300 cubic yards of material was removed from the West Riser, and Berry's Creek between September 30, 2009 and October 15, 2009. This material was stabilized with quick lime and stockpiled onsite. Ten samples were taken from these stockpiles between October 6, 2009 and October 14, 2009. The stockpiles were sampled in approximately 500 cubic yard segments. Composite grab samples were taken at four random locations for each 500-yard segment approximately 1 foot below the surface of the stockpile. Sample locations were biased towards black, loose silt material (sediment) as historically this was where impacted material was found. Soil was homogenized by hand mixing prior to placing the material in sample containers. Samples were sent to Test America in Pittsburg, PA for analysis.

Samples were analyzed for:

- Metals by method SW846 6010B (except for Mercury by method SW846 7470A);
- Pesticides by method SW846 8081A;
- PCBs by method SW846 8082;

- Herbicides by method SW846 8151A;
- VOCs by method SW846 8260B;
- SVOCs by method SW846 8270C;
- pH by method SW846 9045C;
- Ignitability by method SW846 Section 7;
- Total Sulfide and Total Cyanide (Method SW-846 has been modified to report total sulfide and cyanide rather than reactive);
- RCRA TCLP compounds as well as TCLP copper, nickel, mercury, and zinc by the previously mentioned metal analysis methods;
- Free Liquid by method SW846 9095;
- Chemical Oxygen Demand by method MCAWW 410.4, Oils and Grease by method CFR136A 1664A HEM, and Ammonia-Nitrogen by method MCAWW350.1;
- Total Solids by method SM20 2540B; and
- Total Volatile Solids by method SM20 2540G.

A summary of testing results is included in **Table 4**. Complete sampling results are available upon request.

4.2 Waste Generated

There was no waste generated during this reporting period.

Tables

Table 1 - Remedial Actions between October 2, 2009 and November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

Remedial Action	Description	Scheduled this Period?	Status	Comments
Cofferdam Construction	Increase Height of Downstream Cofferdam by 6"	Yes	Completed	The 6-inch extension of the downstream cofferdam was completed this period.
	Cofferdam Removal	Yes	Completed	The upstream and downstream cofferdam were removed.
Installation of by-pass pumping systems	Pump installation	Yes	Completed	Installation of four 12 inch pumps and two 24-inch diameter pumps was completed.
Operaton of by-pass pumping systems	Operation of pump system to by-pass space between cofferdams	Yes	Completed	The by-pass system was in operatation this period.
Removal of by-pass pumping systems	Removal of pump system	Yes	Completed	The by-pass system was removed upon the compeletion of backfilling
Sediment removal and Backfilling	Sediment Excavation	Yes	Completed	Excavation of all zones was completed this period.
	Backfilling excavated zones	Yes	Completed	Backfilling of all zones was completed this period
Site Restoration	Site Restoration	Yes	Completed	Topsoil and seed were placed, and erosion controls were implemented.

Table 2 - Permit Application Status as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

Permit Title	Permit Number	Reviewing Agency	Agency Contact	Date Submitted	Approval Date	Expiration Date	Comments
Freshwater Wetlands Permit	FWW 090001	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Waterfront Development Permit	CDT 090001	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Flood Hazard Area Permit	CDT 090002	LURP/ Dredging Office	Gary Nickerson	6/15/2009	NA	NA	Awaiting approval
Soil and Erosion Control Permit	09-B10212	Bergen County Soil	Angelo Caruso	7/15/2009	9/29/2009	NA	
FAA Permit	630996-109614384	FAA	Robert Alexander	4/29/2009	6/5/2009	12/5/2010	
Tidelands Instrument	0200-05-0002.3	Bureau of Tidelands Management	Bill Kresnosky	7/23/2009	NA	NA	Awaiting approval

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
SW-01	20090812SW-01V0-1EUFD	Ebb	8/12/2009	14:00	0-1	774	NA	30
SW-01	20090812SW-01V0-1EUN	Ebb	8/12/2009	14:00	0-1	1040	31.1	31
SW-01	20090812SW-01V0-1FUN	Flood	8/12/2009	11:35	0-1	773	20.2	27
SW-02	20090812SW-02V0-1EUN	Ebb	8/12/2009	13:15	0-1	562	24.4	36
SW-02	20090812SW-02V0-1FUN	Flood	8/12/2009	12:45	0-1	1400	25.8	70
VVFB	20090812VVFB		8/12/2009	10:00	-	U	NA	NA
SW-01	20090813SW-01V0-1EUN	Ebb	8/13/2009	15:40	0-1	860	21.5	23
SW-01	20090813SW-01V0-1FUN	Flood	8/13/2009	12:35	0-1	694	23.4	24
SW-02	20090813SW-02V0-1EUN	Ebb	8/13/2009	15:05	0-1	654	23.9	45
SW-02	20090813SW-02V0-1FUN	Flood	8/13/2009	11:50	0-1	880	30	23
VVFB	20090813VVFB		8/13/2009	9:00	-	NA	U	NA
SW-01	20090818SW-01V0-1EUFD	Ebb	8/18/2009	9:30	0-1	NA	183 J	NA
SW-01	20090818SW-01V0-1EUN	Ebb	8/18/2009	9:30	0-1	1120 J	181 J	37 J
SW-01	20090818SW-01V0-1FUN	Flood	8/18/2009	7:20	0-1	1540 J	279 J	55 J
SW-02	20090818SW-02V0-1EUN	Ebb	8/18/2009	10:00	0-1	898 J	160 J	28 J
SW-02	20090818SW-02V0-1FUN	Flood	8/18/2009	6:45	0-1	5970 J	297 J	91 J
VVFB	20090818VVFB		8/18/2009	6:15	-	0.83 J	UJ	NA
SW-01	20090819SW-01V0-1EUN	Ebb	8/19/2009	10:50	0-1	1210	107	21
SW-01	20090819SW-01V0-1FUN	Flood	8/19/2009	7:30	0-1	1280	201	29
SW-02	20090819SW-02V0-1EUN	Ebb	8/19/2009	10:15	0-1	1140	126	28
SW-02	20090819SW-02V0-1FUN	Flood	8/19/2009	8:00	0-1	1840	181	26
VVFB	20090819VVFB		8/19/2009	7:00	-	0.19 J	U	NA
SW-01	20090820SW-01V0-1EUN	Ebb	8/20/2009	11:00	0-1	722	62.1	18
SW-01	20090820SW-01V0-1FUN	Flood	8/20/2009	7:55	0-1	1530	192	26
SW-02	20090820SW-02V0-1EUN	Ebb	8/20/2009	10:45	0-1	671	81.7	28
SW-02	20090820SW-02V0-1FUN	Flood	8/20/2009	8:15	0-1	1240	104	38
VVFB	20090820VVFB		8/20/2009	7:30	-	U	U	NA
SW-01	20090824SW-01V0-1EUN	Ebb	8/24/2009	15:05	0-1	766	137	15
SW-01	20090824SW-01V0-1FUFD	Flood	8/24/2009	12:40	0-1	933 J	169	15
SW-01	20090824SW-01V0-1FUN	Flood	8/24/2009	12:40	0-1	1420 J	227	18
SW-01	20090824SW-01V3.4-3.5EUN	Ebb	8/24/2009	15:10	3.4-3.5	773	28	17
SW-01	20090824SW-01V3.4-3.5FUN	Flood	8/24/2009	12:45	3.4-3.5	1180	227	19
SW-02	20090824SW-02V0-1EUN	Ebb	8/24/2009	15:45	0-1	501	96.2	14
SW-02	20090824SW-02V0-1FUN	Flood	8/24/2009	12:00	0-1	1200	161	17
SW-02	20090824SW-02V3.4-3.5EUN	Ebb	8/24/2009	15:50	3.4-3.5	1170	75.2	17
SW-02	20090824SW-02V4.9-5.0FUN	Flood	8/24/2009	12:05	4.9-5	410	122	16
VVFB	20090824VVFB		8/24/2009	11:45	-	U	0.12 J	NA

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
SW-01	20090825SW-01V0-1EUN	Ebb	8/25/2009	15:35	0-1	808	103	14
SW-01	20090825SW-01V0-1FUN	Flood	8/25/2009	11:55	0-1	920	89.4	16
SW-01	20090825SW-01V1.4-1.5FUN	Flood	8/25/2009	12:00	1.4-1.5	902	107	14
SW-01	20090825SW-01V2.9-3.0EUN	Ebb	8/25/2009	15:40	2.9-3	781	98.6	14
SW-02	20090825SW-02V0-1EUN	Ebb	8/25/2009	14:55	0-1	501	99.9	16
SW-02	20090825SW-02V0-1FUN	Flood	8/25/2009	12:40	0-1	1800	99.7	18
SW-02	20090825SW-02V4.2-4.3FUN	Flood	8/25/2009	12:45	4.2-4.3	789	120	16
SW-02	20090825SW-02V5.9-6.0EUN	Ebb	8/25/2009	15:00	5.9-6	642	69.9	16
VVFB	20090825VVFB		8/25/2009	9:30	-	0.12 J	0.14 J	NA
SW-01	20090827SW-01V0.4-0.5EUN	Ebb	8/27/2009	6:50	0.4-0.5	237	11.5 J	14
SW-01	20090827SW-01V0.9-1.0FUN	Flood	8/27/2009	10:55	0.9-1	976	16 J	19
SW-01	20090827SW-01V0-1EUN	Ebb	8/27/2009	6:45	0-1	185	13.2 J	12
SW-01	20090827SW-01V0-1FUN	Flood	8/27/2009	10:50	0-1	1230	17.2 J	23
SW-02	20090827SW-02V0.74-0.75EUFD	Ebb	8/27/2009	7:25	0.74-0.75	392	13.9 J	14
SW-02	20090827SW-02V0.74-0.75EUN	Ebb	8/27/2009	7:25	0.74-0.75	448	14.4 J	13
SW-02	20090827SW-02V0-1EUN	Ebb	8/27/2009	7:20	0-1	492	15.6 J	18
SW-02	20090827SW-02V0-1FUN	Flood	8/27/2009	11:40	0-1	997	20.4 J	31
SW-02	20090827SW-02V1.9-2.0FUN	Flood	8/27/2009	11:45	1.9-2	1650	18.9 J	32
VVFB	20090827VVFB		8/27/2009	6:00	-	0.23 J	0.16 J	NA
SW-01	20090831SW-01V0-1ESUN	Ebb	8/31/2009	8:40	0-1	1160	233	13
SW-01	20090831SW-01V0-1FSUN	Flood	8/31/2009	6:40	0-1	1230	239	13
SW-01	20090831SW-01V1.9-2.0ESUN	Ebb	8/31/2009	8:45	1.9-2	938	218	11
SW-01	20090831SW-01V1.9-2.0FSUN	Flood	8/31/2009	6:45	1.9-2	1100	233	13
SW-02	20090831SW-02V0-1ESUN	Ebb	8/31/2009	8:00	0-1	1180 J	232 J	17
SW-02	20090831SW-02V0-1FSUN	Flood	8/31/2009	7:00	0-1	1230 J	221 J	18
SW-02	20090831SW-02V2.9-3.0ESUN	Ebb	8/31/2009	8:05	2.9-3	791 J	228 J	16
SW-02	20090831SW-02V3.4-3.5FSUN	Flood	8/31/2009	7:05	3.4-3.5	915 J	188 J	16
VVFB	20090831VVFB		8/31/2009	6:00	-	3.4	0.86	NA
SW-01	20090903SW-01V0-1EUN	Ebb	9/3/2009	11:00	0-1	797	1.1	29
SW-01	20090903SW-01V0-1FUN	Flood	9/3/2009	9:00	0-1	964	40.6	45
SW-02	20090903SW-02V0-1FUFD	Flood	9/3/2009	8:15	0-1	987	39.6	21
SW-02	20090903SW-02V0-1FUN	Flood	9/3/2009	8:15	0-1	1000	34.1	31
VVFB	20090903VVFB		9/3/2009	7:30	-	U	U	NA
SW-01	20090904SW-01V0-1EUN	Ebb	9/4/2009	10:30	0-1	922 J	NA	26 J
SW-01	20090904SW-01V0-1FUN	Flood	9/4/2009	7:45	0-1	890 J	NA	34 J
SW-02	20090904SW-02V0-1EUN	Ebb	9/4/2009	11:05	0-1	699 J	NA	23 J
SW-02	20090904SW-02V0-1FUN	Flood	9/4/2009	8:15	0-1	1220 J	NA	27 J

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
VVFB	20090904VVFB		9/4/2009	7:00	-	0.14 J	NA	NA
SW-01	20090909SW-01V0-1EUN	Ebb	9/9/2009	14:25	0-1	910	10.2	23
SW-01	20090909SW-01V0-1FUN	Flood	9/9/2009	10:30	0-1	1090	11.6	41
SW-02	20090909SW-02V0-1EUN	Ebb	9/9/2009	14:50	0-1	436	14.1	28
SW-02	20090909SW-02V0-1FUN	Flood	9/9/2009	11:00	0-1	700	9.1	31
VVFB	20090909VVFB		9/9/2009	10:00	-	0.26 J	U	NA
SW-01	20090910SW-01V0-1EUN	Ebb	9/10/2009	15:30	0-1	1430	12.1	27
SW-01	20090910SW-01V0-1FUN	Flood	9/10/2009	11:00	0-1	1360	14.6	40
SW-02	20090910SW-02V0-1EUN	Ebb	9/10/2009	14:55	0-1	329	6.6	17
SW-02	20090910SW-02V0-1FUN	Flood	9/10/2009	11:30	0-1	728	8.7	33
VVFB	20090910VVFB		9/10/2009	10:40	-	U	U	NA
SW-01	20090915SW-01V0-1EUN	Ebb	9/15/2009	9:20	0-1	709	14.1 J	23
SW-01	20090915SW-01V0-1FUN	Flood	9/15/2009	16:20	0-1	2980	23.5 J	37
SW-02	20090915SW-02V0-1EUFD	Ebb	9/15/2009	9:20	0-1	730	15.5 J	23
SW-02	20090915SW-02V0-1EUN	Ebb	9/15/2009	8:40	0-1	817	13.1 J	23
SW-02	20090915SW-02V0-1FUN	Flood	9/15/2009	16:55	0-1	1320	14.5 J	52
VVFB	20090915VVFB		9/15/2009	8:15	-	0.44 J	U	NA
SW-01	20090917SW-01V0-1EUN	Ebb	9/17/2009	11:15	0-1	778	11.5	16
SW-01	20090917SW-01V0-1FUN	Flood	9/17/2009	7:30	0-1	1280	13.7	17
SW-02	20090917SW-02V0-1EUN	Ebb	9/17/2009	10:45	0-1	326	7.8	14
SW-02	20090917SW-02V0-1FUN	Flood	9/17/2009	7:00	0-1	550	10	24
VVFB	20090917VVFB		9/17/2009	6:40	-	0.12 J	0.16 J	NA
SW-01	20090922SW-01V0-1EUN	Ebb	9/22/2009	14:50	0-1	825	8.9	24
SW-01	20090922SW-01V0-1FUN	Flood	9/22/2009	11:05	0-1	1690	14	31
SW-02	20090922SW-02V0-1EUN	Ebb	9/22/2009	14:15	0-1	1140	7.6	30
SW-02	20090922SW-02V0-1FUN	Flood	9/22/2009	10:40	0-1	757	8.8	31
VVFB	20090922VVFB		9/22/2009	10:00	-	0.52	0.17 J	NA
SW-01	20090923SW-01V0-1FUN	Flood	9/23/2009	10:10	0-1	170	5.1 J	11
VVFB	20090923VVFB		9/23/2009	9:30	-	0.65	UJ	NA
SW-01	20090924SW-01V0-1EUN	Ebb	9/24/2009	16:10	0-1	1370	15.2 J	38
SW-01	20090924SW-01V0-1FUN	Flood	9/24/2009	12:00	0-1	10800	26.8 J	73
SW-02	20090924SW-02V0-1EUN	Ebb	9/24/2009	15:40	0-1	973	11 J	48
SW-02	20090924SW-02V0-1FUN	Flood	9/24/2009	12:30	0-1	1480	13.3 J	31
VVFB	20090924VVFB		9/24/2009	11:30	-	U	UJ	NA
SW-01	20090929SW-01V0-1EVN	Ebb	9/29/2009	9:15	0-1	1480	15.8	14
SW-02	20090929SW-02V0-1EVN	Ebb	9/29/2009	8:30	0-1	1670	32.3	14
SW-02	20090929SW-02V0-1FUN	Flood	9/29/2009	15:45	0-1	3340	40.8	26

Table 3 - Berry's Creek/West Riser Surface Water Sampling Results (Mercury and Total Suspended Solids)
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

SURFACE WATER MONITORING STATION	SAMPLE ID	TIDE	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH (Ft)	MERCURY TOTAL (ng/L)	MERCURY DISSOLVED (ng/L)	TOTAL SUSPENDED SOLIDS (mg/L)
VVFB	20090929VVFB		9/29/2009	8:00	-	U	0.19 J	NA

Notes:
Baseline Monitoring Period: August 12 through August 31, 2009
Construction Monitoring Period: September 1, 2009 through current date.

Acronyms:
- = Not Applicable
J = Estimated Value
NA = Not Analyzed
ng/L = nanograms per liter
SW-02 = Downstream Monitoring Station
U = Not Detected

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091006SP-01V0-1UN			20091009SP-02V0-1UN			20091009SP-03V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Metals											
Silver	5	mg/L	0.0082	B	0.05	0.0026	B	0.05	ND		0.05
Arsenic	5	mg/L	0.022	B	0.05	0.016	B	0.05	0.0073	B	0.05
Barium	100	mg/L	0.93		0.2	0.91		0.2	0.51		0.2
Cadmium	1	mg/L	0.061	J	0.05	0.11		0.05	ND		0.05
Chromium	5	mg/L	0.044	B,J	0.05	0.04	B	0.05	0.0024	B	0.05
Copper	167	mg/L	0.006	B	0.025	0.017	B	0.025	0.0063	B	0.025
Nickel	242	mg/L	0.093		0.04	0.093		0.04	0.0097	B	0.04
Lead	5	mg/L	0.12		0.05	0.062		0.05	ND		0.05
Selenium	1	mg/L	0.009	B	0.05	0.011	B	0.05	0.01	B	0.05
Zinc	1875	mg/L	3.3	J	0.02	3.4	J	0.02	0.0076	B,J	0.02
Mercury	0.2	mg/L	0.00027		0.0002	0.052		0.002	ND		0.0002
Pesticides											
Methoxychlor	10	mg/L	ND		0.001	ND		0.001	ND		0.001
Chlordane	0.03	mg/L	ND		0.005	ND		0.005	ND		0.005
Endrin	0.02	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor Expoxide	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Toxaphene	0.5	mg/L	ND		0.02	ND		0.02	ND		0.02
Lindane	0.4	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
PCBs											
Aroclor 1016	50	mg/kg	ND		0.023	ND		0.023	ND		0.024
Aroclor 1221	50	mg/kg	ND		0.023	ND		0.023	ND		0.024
Aroclor 1232	50	mg/kg	ND		0.023	ND		0.023	ND		0.024
Aroclor 1242	50	mg/kg	ND		0.023	ND		0.023	ND		0.024
Aroclor 1248	50	mg/kg	1.1		0.023	1.5		0.023	1.6		0.024
Aroclor 1254	50	mg/kg	0.5		0.023	0.68		0.023	0.58		0.024
Aroclor 1260	50	mg/kg	0.097		0.023	0.14		0.023	0.11		0.024
Herbicides											
2,4- D	10	mg/L	ND		0.04	ND		0.04	ND		0.04
2,4,5 - TP (Silvex)	1	mg/L	ND		0.01	ND		0.01	ND		0.01
VOCs											
Vinyl chloride	0.2	mg/L	ND		0.2	ND		0.02	ND		0.2
2-Butanone	200	mg/L	ND		0.2	ND		0.02	ND		0.2
Benzene	0.5	mg/L	ND		0.2	ND		0.02	ND		0.2
Carbon tetrachloride	0.5	mg/L	ND		0.2	ND		0.02	ND		0.2

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091006SP-01V0-1UN			20091009SP-02V0-1UN			20091009SP-03V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Chlorobenzene	100	mg/L	ND		0.2	ND		0.02	ND		0.2
Chloroform	6	mg/L	ND		0.2	ND		0.02	ND		0.2
1,2-Dichloroethane	0.5	mg/L	ND		0.2	ND		0.02	ND		0.2
1,1- Dichloroethene	0.7	mg/L	ND		0.2	ND		0.02	ND		0.2
Tetrachloroethene	0.7	mg/L	ND		0.2	ND		0.02	ND		0.2
Trichloroethene	0.5	mg/L	ND		0.2	ND		0.02	ND		0.2
SVOCs											
Pyridine	5	mg/L	ND		0.1	ND		0.1	ND		0.1
Cresols (total)	200	mg/L	ND		0.05	ND		0.05	ND		0.05
1,4 - Dichlorobenzene	7.5	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4- Dinitrotoluene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobenzene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobutadiene	0.5	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachloroethane	3	mg/L	ND		0.05	ND		0.05	ND		0.05
Nitrobenzene	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Pentachlorophenol	100	mg/L	ND		0.25	ND		0.25	ND		0.25
2,4,5 - Trichlorophenol	400	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4,6 - Trichlorophenol	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Inorganics											
Cyanide, total	100	mg/kg	0.4	B	0.68	0.47	B	0.68	1		0.71
Chemical Oxygen Demand		mg/L	87.8	J	10	105		10	96		10
N-Hexane Extractable Material	88550	mg/L	ND		4.8	ND		4.8	ND		4.8
n-Hexane Extractable Material		mg/kg	920		228	1080		228	728		238
Ignitability	No	none	No			No			No		
Nitrogen, Ammonia		mg/L	1.3	J	0.1	1.1	J	0.1	1.4	J	0.1
Soil and Waste pH	2.0-12..5		12			12			12.5		
Paint Filter Test	CNF		CNF			CNF			CNF		
Total Residue as Percent Solids		%	73.2			73.1		1	70.1		1
Total Residue		mg/L	409		10	479		10	1020		10
Percent Volatile Solids		%	4.8		0.5	5.7		0.5	5		0.5
Sulfides, Total	500	mg/kg	109		41	120		41.1	388		42.8

Notes:
CNF - Contains No Free Liquid

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091012SP-04V0-1UN			20091014SP-05V0-1UN			20091014SP-06V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Metals											
Silver	5	mg/L	ND		0.05	ND		0.05	0.0011	B	0.05
Arsenic	5	mg/L	0.014	B	0.05	0.0047	B	0.05	0.017	B	0.05
Barium	100	mg/L	0.9		0.2	0.63		0.2	0.9		0.2
Cadmium	1	mg/L	0.00082	B	0.05	ND		0.05	0.027	B	0.05
Chromium	5	mg/L	0.0045	B	0.05	0.0037	B,J	0.05	0.026	B,J	0.05
Copper	167	mg/L	ND		0.025	0.0087	B	0.025	0.0047	B	0.025
Nickel	242	mg/L	0.052		0.04	0.013	B	0.04	0.12		0.04
Lead	5	mg/L	0.01	B	0.05	ND		0.05	0.17		0.05
Selenium	1	mg/L	0.0081	B	0.05	0.0078	B	0.05	0.012	B	0.05
Zinc	1875	mg/L	0.66		0.02	0.0063	B	0.02	5.7		0.02
Mercury	0.2	mg/L	0.00075		0.0002	0.0011		0.0002	0.00049		0.0002
Pesticides											
Methoxychlor	10	mg/L	ND		0.001	ND		0.001	ND		0.001
Chlordane	0.03	mg/L	ND		0.005	ND		0.005	ND		0.005
Endrin	0.02	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor Expoxide	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Toxaphene	0.5	mg/L	ND		0.02	ND		0.02	ND		0.02
Lindane	0.4	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
PCBs											
Aroclor 1016	50	mg/kg	ND		0.023	ND		0.023	ND		0.022
Aroclor 1221	50	mg/kg	ND		0.023	ND		0.023	ND		0.022
Aroclor 1232	50	mg/kg	ND		0.023	ND		0.023	ND		0.022
Aroclor 1242	50	mg/kg	ND		0.023	ND		0.023	ND		0.022
Aroclor 1248	50	mg/kg	1.3	PG	0.023	1.8		0.023	1.7		0.022
Aroclor 1254	50	mg/kg	0.56		0.023	0.69		0.023	0.5		0.022
Aroclor 1260	50	mg/kg	ND		0.023	ND		0.023	ND		0.022
Herbicides											
2,4- D	10	mg/L	ND		0.04	ND		0.04	ND		0.04
2,4,5 - TP (Silvex)	1	mg/L	ND		0.01	ND		0.01	ND		0.01
VOCs											
Vinyl chloride	0.2	mg/L	ND		0.2	ND		0.2	ND		0.2
2-Butanone	200	mg/L	ND		0.2	ND		0.2	ND		0.2
Benzene	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
Carbon tetrachloride	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091012SP-04V0-1UN			20091014SP-05V0-1UN			20091014SP-06V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Chlorobenzene	100	mg/L	ND		0.2	ND		0.2	ND		0.2
Chloroform	6	mg/L	ND		0.2	ND		0.2	ND		0.2
1,2-Dichloroethane	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
1,1- Dichloroethene	0.7	mg/L	ND		0.2	ND		0.2	ND		0.2
Tetrachloroethene	0.7	mg/L	ND		0.2	ND		0.2	ND		0.2
Trichloroethene	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
SVOCs											
Pyridine	5	mg/L	ND		0.1	ND		0.1	ND		0.1
Cresols (total)	200	mg/L	ND		0.05	ND		0.05	ND		0.05
1,4 - Dichlorobenzene	7.5	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4- Dinitrotoluene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobenzene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobutadiene	0.5	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachloroethane	3	mg/L	ND		0.05	ND		0.05	ND		0.05
Nitrobenzene	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Pentachlorophenol	100	mg/L	ND		0.25	ND		0.25	ND		0.25
2,4,5 - Trichlorophenol	400	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4,6 - Trichlorophenol	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Inorganics											
Cyanide, total	100	mg/kg	1.1	J	0.69	2.2	J	0.69	1.6	J	0.66
Chemical Oxygen Demand		mg/L	76.4		10	103		10	68		10
N-Hexane Extractable Material	88550	mg/L	5		4.8	5.8		5	5.8		4.8
n-Hexane Extractable Material		mg/kg	763		231	1870		232	1340		219
Ignitability	No	none	No			No			No		
Nitrogen, Ammonia		mg/L	1.1	J	0.1	1.5	J	0.1	1.3	J	0.1
Soil and Waste pH	2.0-12..5		12.4			11.9			10.6		
Paint Filter Test	CNF		CNF			CNF			CNF		
Total Residue as Percent Solids		%	72.1		1	72		1	76		10
Total Residue		mg/L	824		10	1020		10	227		10
Percent Volatile Solids		%	4.5		0.5	4.1		0.5	2.9		0.5
Sulfides, Total	500	mg/kg	322		41.6	145		41.7	263		39.5

Notes:
CNF - Contains No Free Liquid

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091014SP-07V0-1UN			20091014SP-08V0-1UN			20091014SP-09V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Metals											
Silver	5	mg/L	0.00084	B	0.05	0.00072	B	0.05	0.002	B	0.05
Arsenic	5	mg/L	0.018	B	0.05	0.0076	B	0.05	0.11		0.05
Barium	100	mg/L	0.73		0.2	0.74		0.2	1.4		0.2
Cadmium	1	mg/L	0.035	B	0.05	0.025	B	0.05	0.0019	B	0.05
Chromium	5	mg/L	0.027	B,J	0.05	0.016	B,J	0.05	0.016	B,J	0.05
Copper	167	mg/L	0.021	B	0.025	0.0034	B	0.025	ND		0.025
Nickel	242	mg/L	0.085		0.04	0.12		0.04	0.32		0.04
Lead	5	mg/L	0.18		0.05	0.2		0.05	0.042	B	0.05
Selenium	1	mg/L	0.0096	B	0.05	0.012	B	0.05	0.0078	B	0.05
Zinc	1875	mg/L	4.6		0.02	4.5		0.02	18.5		0.02
Mercury	0.2	mg/L	0.00032		0.0002	0.0002		0.0002	0.000072	B	0.0002
Pesticides											
Methoxychlor	10	mg/L	ND		0.001	ND		0.001	ND		0.001
Chlordane	0.03	mg/L	ND		0.005	ND		0.005	ND		0.005
Endrin	0.02	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Heptachlor Expoxide	0.008	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
Toxaphene	0.5	mg/L	ND		0.02	ND		0.02	ND		0.02
Lindane	0.4	mg/L	ND		0.0005	ND		0.0005	ND		0.0005
PCBs											
Aroclor 1016	50	mg/kg	ND		0.021	ND		0.021	ND		0.02
Aroclor 1221	50	mg/kg	ND		0.021	ND		0.021	ND		0.02
Aroclor 1232	50	mg/kg	ND		0.021	ND		0.021	ND		0.02
Aroclor 1242	50	mg/kg	ND		0.021	ND		0.021	ND		0.02
Aroclor 1248	50	mg/kg	0.89		0.021	0.65		0.021	4.9		0.02
Aroclor 1254	50	mg/kg	0.34		0.021	0.21		0.021	1.5		0.02
Aroclor 1260	50	mg/kg	ND		0.021	ND		0.021	ND		20
Herbicides											
2,4- D	10	mg/L	ND		0.04	ND		0.04	ND		0.04
2,4,5 - TP (Silvex)	1	mg/L	ND		0.01	ND		0.01	ND		0.01
VOCs											
Vinyl chloride	0.2	mg/L	ND		0.2	ND		0.2	ND		0.2
2-Butanone	200	mg/L	ND		0.2	ND		0.2	ND		0.2
Benzene	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
Carbon tetrachloride	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091014SP-07V0-1UN			20091014SP-08V0-1UN			20091014SP-09V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**	**Result**		**Reporting Limit**
Chlorobenzene	100	mg/L	ND		0.2	ND		0.2	ND		0.2
Chloroform	6	mg/L	ND		0.2	ND		0.2	ND		0.2
1,2-Dichloroethane	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
1,1- Dichloroethene	0.7	mg/L	ND		0.2	ND		0.2	ND		0.2
Tetrachloroethene	0.7	mg/L	ND		0.2	ND		0.2	ND		0.2
Trichloroethene	0.5	mg/L	ND		0.2	ND		0.2	ND		0.2
SVOCs											
Pyridine	5	mg/L	ND		0.1	ND		0.1	ND		0.1
Cresols (total)	200	mg/L	ND		0.05	ND		0.05	ND		0.05
1,4 - Dichlorobenzene	7.5	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4- Dinitrotoluene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobenzene	0.13	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachlorobutadiene	0.5	mg/L	ND		0.05	ND		0.05	ND		0.05
Hexachloroethane	3	mg/L	ND		0.05	ND		0.05	ND		0.05
Nitrobenzene	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Pentachlorophenol	100	mg/L	ND		0.25	ND		0.25	ND		0.25
2,4,5 - Trichlorophenol	400	mg/L	ND		0.05	ND		0.05	ND		0.05
2,4,6 - Trichlorophenol	2	mg/L	ND		0.05	ND		0.05	ND		0.05
Inorganics											
Cyanide, total	100	mg/kg	0.18	B,J	0.63	0.4	B,J	0.64	0.18	B,J	0.62
Chemical Oxygen Demand		mg/L	44.5		10	66		10	76.4		10
N-Hexane Extractable Material	88550	mg/L	ND		4.8	5.2		4.8	5.7		4.8
n-Hexane Extractable Material		mg/kg	1360		210	1710		215	1860		207
Ignitability	No	none	No			No			No		
Nitrogen, Ammonia		mg/L	2.3	J	0.1	1.2	J	0.1	1	J	0.1
Soil and Waste pH	2.0-12..5		10			10.6			11.4		
Paint Filter Test	CNF		CNF			CNF			CNF		
Total Residue as Percent Solids		%	79.2		1	77.6		1	80.5		1
Total Residue		mg/L	196		10	326		10	479		10
Percent Volatile Solids		%	2.7		0.5	3.4		0.5	3.7		0.5
Sulfides, Total	500	mg/kg	50.5		37.9	82.5		38.7	268		37.3

Notes:
CNF - Contains No Free Liquid

Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091014SP-10V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**
Metals					
Silver	5	mg/L	0.0012	B	0.05
Arsenic	5	mg/L	0.011	B	0.05
Barium	100	mg/L	0.84		0.2
Cadmium	1	mg/L	0.025	B	0.05
Chromium	5	mg/L	0.018	B,J	0.05
Copper	167	mg/L	0.0062	B	0.025
Nickel	242	mg/L	0.11		0.04
Lead	5	mg/L	0.12		0.05
Selenium	1	mg/L	0.0096	B	0.05
Zinc	1875	mg/L	4.7		0.02
Mercury	0.2	mg/L	0.0034		0.00002
Pesticides					
Methoxychlor	10	mg/L	ND		0.001
Chlordane	0.03	mg/L	ND		0.005
Endrin	0.02	mg/L	ND		0.0005
Heptachlor	0.008	mg/L	ND		0.0005
Heptachlor Expoxide	0.008	mg/L	ND		0.0005
Toxaphene	0.5	mg/L	ND		0.02
Lindane	0.4	mg/L	ND		0.0005
PCBs					
Aroclor 1016	50	mg/kg	ND		0.021
Aroclor 1221	50	mg/kg	ND		0.021
Aroclor 1232	50	mg/kg	ND		0.021
Aroclor 1242	50	mg/kg	ND		0.021
Aroclor 1248	50	mg/kg	1.2		0.021
Aroclor 1254	50	mg/kg	0.42		0.021
Aroclor 1260	50	mg/kg	ND		0.021
Herbicides					
2,4- D	10	mg/L	ND		0.04
2,4,5 - TP (Silvex)	1	mg/L	ND		0.01
VOCs					
Vinyl chloride	0.2	mg/L	ND		0.2
2-Butanone	200	mg/L	ND		0.2
Benzene	0.5	mg/L	ND		0.2
Carbon tetrachloride	0.5	mg/L	ND		0.2

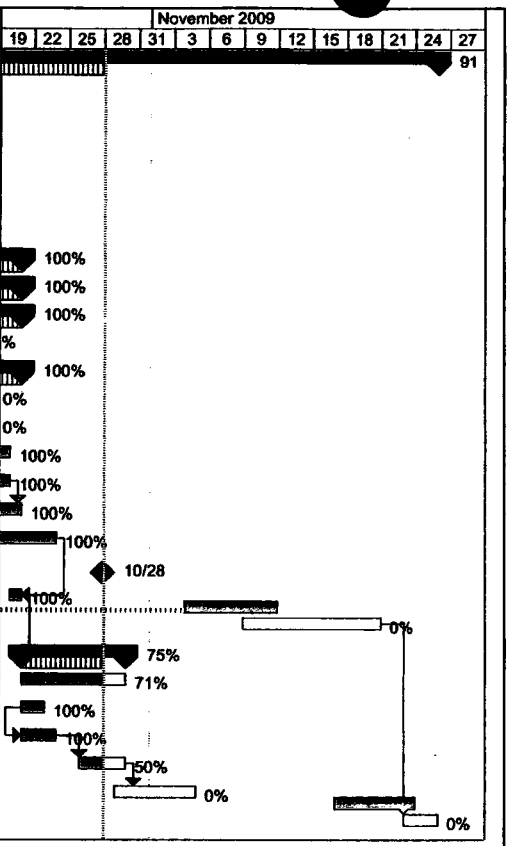
Table 4 - Waste Characterization Results as of November 6, 2009
West Riser Tide Gate Sediment Removal Action
Wood-Ridge and Carlstadt, New Jersey

			20091014SP-10V0-1UN		
Compound	**RCRA Limit**	**Units**	**Result**		**Reporting Limit**
Chlorobenzene	100	mg/L	ND		0.2
Chloroform	6	mg/L	ND		0.2
1,2-Dichloroethane	0.5	mg/L	ND		0.2
1,1- Dichloroethene	0.7	mg/L	ND		0.2
Tetrachloroethene	0.7	mg/L	ND		0.2
Trichloroethene	0.5	mg/L	ND		0.2
SVOCs					
Pyridine	5	mg/L	ND		0.1
Cresols (total)	200	mg/L	ND		0.05
1,4 - Dichlorobenzene	7.5	mg/L	ND		0.05
2,4- Dinitrotoluene	0.13	mg/L	ND		0.05
Hexachlorobenzene	0.13	mg/L	ND		0.05
Hexachlorobutadiene	0.5	mg/L	ND		0.05
Hexachloroethane	3	mg/L	ND		0.05
Nitrobenzene	2	mg/L	ND		0.05
Pentachlorophenol	100	mg/L	ND		0.25
2,4,5 - Trichlorophenol	400	mg/L	ND		0.05
2,4,6 - Trichlorophenol	2	mg/L	ND		0.05
Inorganics					
Cyanide, total	100	mg/kg	1.9	B,J	0.62
Chemical Oxygen Demand		mg/L	69.9		10
N-Hexane Extractable Material	88550	mg/L	ND		4.8
n-Hexane Extractable Material		mg/kg	1370		208
Ignitability	No	none	No		
Nitrogen, Ammonia		mg/L	1.5	J	0.1
Soil and Waste pH	2.0-12..5		11.3		
Paint Filter Test	CNF		CNF		
Total Residue as Percent Solids		%	80.3		1
Total Residue		mg/L	372		10
Percent Volatile Solids		%	3.4		0.5
Sulfides, Total	500	mg/kg	99.7		37.4

Notes:
CNF - Contains No Free Liquid

Attachment 1 – Schedule of West Riser SRAWP Activities

ID	Task Name	Duration	Baseline Start	Baseline Finish	Start	Finish	Actual Start	Actual Finish	% Comp
1	**Berry Creek/WRTG Construction**	**79 days**	**Mon 8/10/09**	**Mon 11/23/09**	**Mon 8/10/09**	**Wed 11/25/09**	**Mon 8/10/09**	**NA**	**91%**
2	**SES pre-construction submittals**	**33 days**	**Mon 8/10/09**	**Fri 8/28/09**	**Mon 8/10/09**	**Thu 9/24/09**	**Mon 8/10/09**	**Thu 9/24/09**	**100%**
5	**Mobilization and Site Preparation**	**14 days**	**Mon 8/31/09**	**Wed 9/9/09**	**Mon 8/31/09**	**Fri 9/18/09**	**Mon 8/31/09**	**Fri 9/18/09**	**100%**
9	**Install Coffer Dams**	16 days	Wed 9/2/09	Wed 9/23/09	Tue 9/8/09	Tue 9/29/09	Tue 9/8/09	Tue 9/29/09	100%
10	Increase Height of Backflow Dam by 6"	7 days	NA	NA	Tue 9/29/09	Tue 10/6/09	Tue 9/29/09	Tue 10/6/09	100%
11	**Install By-Pass Pumping and Dewatering Systems**	**19 days**	**Wed 9/2/09**	**Wed 9/23/09**	**Tue 9/8/09**	**Fri 10/2/09**	**Tue 9/8/09**	**Fri 10/2/09**	**100%**
16	**Test Systems and Water Treatment**	**9 days**	**Mon 9/14/09**	**Mon 9/21/09**	**Wed 9/16/09**	**Mon 9/28/09**	**Wed 9/16/09**	**Mon 9/28/09**	**100%**
20	**Operate Bypass Pumping System**	**19 days**	**Wed 9/23/09**	**Mon 11/9/09**	**Mon 9/28/09**	**Tue 10/20/09**	**Mon 9/28/09**	**Tue 10/20/09**	**100%**
21	**Construction**	**19 days**	**Wed 9/23/09**	**Thu 10/8/09**	**Mon 9/28/09**	**Tue 10/20/09**	**Mon 9/28/09**	**Tue 10/20/09**	**100%**
22	**Dewater Work Zones**	**19 days**	**Wed 9/23/09**	**Thu 10/8/09**	**Mon 9/28/09**	**Tue 10/20/09**	**Mon 9/28/09**	**Tue 10/20/09**	**100%**
29	**Excavate Sediment**	**13 days**	**Fri 9/25/09**	**Tue 10/6/09**	**Wed 9/30/09**	**Wed 10/14/09**	**Wed 9/30/09**	**Wed 10/14/09**	**100%**
35	**Place Backfill**	**15 days**	**Mon 9/28/09**	**Thu 10/8/09**	**Fri 10/2/09**	**Tue 10/20/09**	**Fri 10/2/09**	**Tue 10/20/09**	**100%**
36	Backfill Zone 1 - U	13 days	Mon 9/28/09	Tue 9/29/09	Fri 10/2/09	Fri 10/16/09	Fri 10/2/09	Fri 10/16/09	100%
37	Backfill Zone 2 - V	11 days	Wed 9/30/09	Thu 10/1/09	Mon 10/5/09	Fri 10/16/09	Mon 10/5/09	Fri 10/16/09	100%
38	Backfill Zone 3 - W	9 days	Fri 10/2/09	Sat 10/3/09	Thu 10/8/09	Mon 10/19/09	Thu 10/8/09	Mon 10/19/09	100%
39	Backfill Zone 4 - X	6 days	Mon 10/5/09	Tue 10/6/09	Mon 10/12/09	Mon 10/19/09	Mon 10/12/09	Mon 10/19/09	100%
40	Backfill Zone 5 - Y&Z	2 days	NA	NA	Mon 10/19/09	Tue 10/20/09	Mon 10/19/09	Tue 10/20/09	100%
41	Complete Rip Rap Zone 5 - Y&Z	9 days	Wed 10/7/09	Thu 10/8/09	Tue 10/13/09	Fri 10/23/09	Tue 10/13/09	Fri 10/23/09	100%
42	NJMC Start WRTG Work	0 days	Wed 9/30/09	Mon 11/9/09	Wed 10/28/09	Wed 10/28/09	NA	NA	0%
43	Restoration (Topsoil, Seed, Erosion Control)	1 day	Wed 9/30/09	Wed 11/11/09	Tue 10/20/09	Tue 10/20/09	Tue 10/20/09	Tue 10/20/09	100%
44	Load Out Stabilized Sediment	10 days	Wed 10/7/09	Wed 10/14/09	Mon 11/9/09	Fri 11/20/09	NA	NA	0%
45	**Remove Cofferdams/Bypass Pumps/discharge line**	**7 days**	**Tue 11/10/09**	**Mon 11/23/09**	**Wed 10/21/09**	**Thu 10/29/09**	**Wed 10/21/09**	**NA**	**75%**
46	Remove Bypass Pumping System	7 days	NA	NA	Wed 10/21/09	Thu 10/29/09	Wed 10/21/09	NA	71%
47	Extract Upstream Dam	2 days	NA	NA	Wed 10/21/09	Thu 10/22/09	Wed 10/21/09	Thu 10/22/09	100%
48	Extract and Backfill Wet Well	3 days	NA	NA	Wed 10/21/09	Fri 10/23/09	Wed 10/21/09	Fri 10/23/09	100%
49	Extract Downstream Dam	4 days	NA	NA	Mon 10/26/09	Thu 10/29/09	Mon 10/26/09	NA	50%
50	Decon and Demob	5 days	Tue 11/17/09	Mon 11/23/09	Thu 10/29/09	Wed 11/4/09	NA	NA	0%
51	Decon and Demob - Post Load Out	3 days	NA	NA	Mon 11/23/09	Wed 11/25/09	NA	NA	0%



Project: SES BC Schedule_10-28-09
Date: Wed 10/28/09

Critical		Split		Baseline Milestone		Project Summary	
Critical Split		Task Progress		Milestone		External Tasks	
Critical Progress		Baseline		Summary Progress		External Milestone	
Task		Baseline Split		Summary		Deadline	

Attachment 2 – Construction Water Treatment Plant Compliance Results

Bigler Associates, Inc.

September 29, 2009

Chris Greene, P.E., Project Manager
PARSONS
150 Federal Street
4th Floor
Boston, MA 02110

Re: Ventron Velsicol Superfund Site – Construction Water Treatment Plant
CWTP Effluent Test Results from testing of Area I Water
Effluent Sample Collected on September 21, 2009

Dear Chris:

Attached please find the laboratory data from Test America for Construction Water Treatment Plant (CWTP) effluent samples collected on September 21, 2009. The CWTP was operated treating approximately 3,189 gallons of water from Area I during the week ending September 27, 2009.

Sample Collection and Data Summary

Effluent results are presented below and copies of the data sheets and chain of custody form are attached. Test results confirm compliance with the discharge permit-by-rule effluent limits.

Summary of CWTP Effluent Data from Samples Collected September 21, 2009
Excavation Area I

Parameter	9/21/09 Result, ug/l	Test America RL – ug/L	Weekly Average ug/l	NJDEP Permit Limit ug/l
Arsenic	<2.5	2.5	<2.5	3
Mercury	<0.20	0.20	<0.20	2
Thallium	<1.0	1.0	<1.0	2
Iron	<150	150	<150	1,000
Manganese	227	10.0	227	1,000
TSS	<5,000	5,000	<5,000	5,000
Benzene	<1.0	0.2	<1.0	1

Weekly average values: When the reported value is greater than the MDL but less than the RL, a value of 50% of the RL will be used to calculate the average value. When the reported value is less than the MDL, a value of 50% of the MDL will be used to calculate the average value. NS = not sampled.

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

All Testing performed by Test America, Edison, NJ.

Please contact me with any questions.

Sincerely,

BIGLER ASSOCIATES, INC.

Daniel Bigler

C: J. Fettig, T. Schoenberg, D. Alesandro, L. Frey

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units	ug/l	ug/l	ug/L	
METALS				
Arsenic	8	3	2.5	U
Iron	300	300	150	U
Manganese	50	50	227	
Mercury	2	2	0.20	U
Thallium	10	2	1.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor			1	
Units	ug/l	ug/l	ug/L	
VOLATILE COMPOUNDS (GC/MS)				
Benzene	1	1	1.0	U
Total Confident Conc.			0	
Total Estimated Conc. (TICs)			0	

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-5910-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	Plant Effluent	
Lab Sample No.	PQLs and	PQLs and	460-5910-1	
Sampling Date	GW Quality	GW Quality	9/21/2009 9:30:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units				
WET CHEMISTRY				
Total Suspended Solids (mg/L)	NA	NA	5.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice): DAN ALESSANDRO
Company: BIGGER ASSOC. INC
Address: 2 MAIN ST
City: REDBANK State: NJ
Phone: 201-296-0473 Fax:

Samplers Name (Printed): DAN ALESSANDRO
P.O. #:

Site/Project Identification: VENTRON - WRTG #
State (Location of data): NJ ☒ NY ☐ Other:
Regulatory Program: NJPDES

Samples Consequential Time: Standard ☐
Rush Charges Authorized For: 3 Week ☐ 1 Week ☐ Other ☒ 24HR

Analytical Requirements (Attach additional sheet if more space required)

Sample Identification	Date	Time	Matrix	No. of Cont.	BENZENE	MERCURY	TSS									Sample Numbers
PLANT EFFLUENT	9/01	4:30		5	X	X	X									

LAB USE ONLY
Project No:
Job No:

Preservation Used: 1 = Ice, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____
Soil:
Water: 1,2 1,4 1

Special Instructions: METALS = Hg, Tl, As, Fe, Mn TSS MDL = 4 mg/L Water Metals Filtered (Yes/No)

Relinquished by	Company	Date / Time	Received by	Company
1) [illegible]	BAT	9/10/01 15:45	1) [illegible]	TEST AMERICA
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ912), North Carolina (No. 576)

TAL - 0018 (0408)

Bigler Associates, Inc.

October 19, 2009

Chris Greene, P.E., Project Manager
PARSONS
150 Federal Street
4th Floor
Boston, MA 02110

Re: Ventron Velsicol Superfund Site – Construction Water Treatment Plant CWTP Effluent Test Results from Testing of Water From Area I and WRTG Work Effluent Sample Collected on October 12, 2009

Dear Chris:

Attached please find the laboratory data from Test America for the Construction Water Treatment Plant (CWTP) effluent sample collected on October 12, 2009. The CWTP was operated treating approximately 64,421 gallons of water from Area I, WRTG work and stockpile runoff during the week ending October 17th.

Sample Collection and Data Summary

Effluent results are presented below and copies of the data sheets and chain of custody forms are attached. Test results confirm compliance with the discharge permit-by-rule effluent limits for all days of operation.

Summary of CWTP Effluent Data
Excavation Area I and WRTG Effluent

Parameter	10/12/09 Result, ug/l	Test America RL – ug/L	Weekly Average ug/l	NJDEP Permit Limit ug/l
Arsenic	<2.5	2.5	<2.5	3
Mercury	<0.20	0.20	<0.20	2
Thallium	<1.0	1.0	<1.0	2
Iron	<150	150	<150	1,000
Manganese	18.5	10.0	18.5	1,000
TSS	<5,000	5,000	<5,000	5,000
Benzene	<1.0	0.2	<1.0	1

Weekly average values: When the reported value is greater than the MDL but less than the RL, a value of 50% of the RL will be used to calculate the average value. When the reported value is less than the MDL, a value of 50% of the MDL will be used to calculate the average value.
NS = not sampled.
All Testing performed by Test America, Edison, NJ.

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

Please contact me with any questions.

Sincerely,

BIGLER ASSOCIATES, INC.

Daniel Bigler

C: J. Fettig, T. Schoenberg, D. Alesandro, L. Frey

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6672-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6672-1	
Sampling Date	GW Quality	GW Quality	10/12/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units				
WET CHEMISTRY				
Total Suspended Solids (mg/L)	NA	NA	5.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6672-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6672-1	
Sampling Date	GW Quality	GW Quality	10/12/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units	ug/l	ug/l	ug/L	
METALS				
Arsenic	8	3	2.5	U
Iron	300	300	150	U
Manganese	50	50	18.5	
Mercury	2	2	0.20	U
Thallium	10	2	1.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 10/14/2009 5:07:41 PM

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6672-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6672-1	
Sampling Date	GW Quality	GW Quality	10/12/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor			1	
Units	ug/l	ug/l	ug/L	
VOLATILE COMPOUNDS (GC/MS)				
Benzene	1	1	1.0	U
Total Confident Conc.			0	
Total Estimated Conc. (TICs)			0	

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 10/14/2009 5:07:41 PM

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

Name (for report and invoice): DAN ALESANDRO	Samplers Name (Printed): DAN ALESANDRO	Site/Project Identification: VENTRON
Company: BIGLER ASSOC. INC.	P.O. #	State (Location of site): NJ [X] NY [ ] Other:
		Regulatory Program:
Address: 2 MAIN ST.	Analysis Turnaround Time: Standard [ ]	LAB USE ONLY Project No:
City: RIDGEFIELD PK State: NJ	Rush Charges Authorized For: 2 Week [ ] 1 Week [ ] Other [X] 24 HR	Job No:
Phone: 201 2960712 Fax:		

ANALYSIS REQUESTED (LIMIT 4 LEGS TO PRIORITY POINTS)

Sample Identification	Date	Time	Matrix	No. of Cont.	METALS*	BENZENE	TSS*								Sample Numbers
PLANT EFF	10/12/09	10:00	AQ	5	X	X	X								

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH, 6 = Other _____, 7 = Other _____

Soil:
Water: 1,4 1,2 1

Special Instructions: METALS = Hg, Tl, As, Fe, Mn TSS MDL = <5 mg/L Water Metals Filtered (Yes/No)

Relinquished by	Company	Date / Time	Received by	Company
[signature]	BAI	10/12/09 14:18	1) [signature]	TAI AMERICA
Relinquished by 2)	Company	Date / Time	Received by 2)	Company
Relinquished by 3)	Company	Date / Time	Received by 3)	Company
Relinquished by 4)	Company	Date / Time	Received by 4)	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0405)

Bigler Associates, Inc.

October 26, 2009

Chris Greene, P.E., Project Manager
PARSONS
150 Federal Street
4th Floor
Boston, MA 02110

Re: Ventron Velsicol Superfund Site – Construction Water Treatment Plant CWTP Effluent Test Results from Testing of Water From Area I and WRTG Work Effluent Sample Collected on October 19, 2009

Dear Chris:

Attached please find the laboratory data from Test America for the Construction Water Treatment Plant (CWTP) effluent sample collected on October 19, 2009. The CWTP was operated treating approximately 103,535 gallons of water from WRTG work and soil stockpile runoff during the week ending October 26th.

Sample Collection and Data Summary

Effluent results are presented below and copies of the data sheets and chain of custody forms are attached. Test results confirm compliance with the discharge permit-by-rule effluent limits for all days of operation.

Summary of CWTP Effluent Data
Excavation Area I and WRTG Effluent

Parameter	10/19/09 Result, ug/l	Test America RL – ug/L	Weekly Average ug/l	NJDEP Permit Limit ug/l
Arsenic	<2.5	2.5	<2.5	3
Mercury	<0.20	0.20	<0.20	2
Thallium	<1.0	1.0	<1.0	2
Iron	<150	150	<150	1,000
Manganese	102	10.0	102	1,000
TSS	<5,000	5,000	<5,000	5,000
Benzene	<1.0	0.2	<1.0	1

Weekly average values: When the reported value is greater than the MDL but less than the RL, a value of 50% of the RL will be used to calculate the average value. When the reported value is less than the MDL, a value of 50% of the MDL will be used to calculate the average value.
NS = not sampled.
All Testing performed by Test America, Edison, NJ.

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

Please contact me with any questions.

Sincerely,

BIGLER ASSOCIATES, INC.

Daniel Bigler

C: J. Fettig, T. Schoenberg, D. Alesandro, L. Frey

2 Main Street, Ridgefield Park, NJ 07660
Tel (201) 296-0712 Fax (201) 296-0729

TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6926-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6926-1	
Sampling Date	GW Quality	GW Quality	10/19/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units	ug/l	ug/l	ug/L	
METALS				
Arsenic	8	3	2.5	U
Iron	300	300	150	U
Manganese	50	50	102	
Mercury	2	2	0.20	U
Thallium	10	2	1.0	U

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6926-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6926-1	
Sampling Date	GW Quality	GW Quality	10/19/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor				
Units				
WET CHEMISTRY				
Total Suspended Solids (mg/L)	NA	NA	5.0	U

NR Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

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TestAmerica

SUMMARY OF ANALYTICAL RESULTS: 460-6926-1

The Action Levels listed reflect current TestAmerica Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID	NJ Higher of	NJ Higher of	PLANT EFF	
Lab Sample No.	PQLs and	PQLs and	460-6926-1	
Sampling Date	GW Quality	GW Quality	10/19/2009 10:00:00 AM	
Matrix	2000 Criteria	2005Criteria	Water	
Dilution Factor			1	
Units	ug/l	ug/l	ug/L	
VOLATILE COMPOUNDS (GC/MS)				
Benzene	1	1	1.0	U
Total Confident Conc.			0	
Total Estimated Conc. (TICs)			0	

NR: Not analyzed.

U: Indicates the analyte was analyzed for but not detected.

Generated on 10/21/2009 7:31:24 AM