

WORK PLAN

MONITORING WELL CLOSURE AND PARTIAL FENCE RELOCATION

**Crown Vantage Landfill Site
Alexandria Township, New Jersey**

Prepared for

U.S. Environmental Protection Agency, Region 2
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December 2012

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1.0 INTRODUCTION

1.1 Purpose

This document presents a work plan for the closure of existing monitoring wells and piezometers and the relocation of a portion of the perimeter fencing at the Crown Vantage Landfill site (the site) located in Alexandria Township, New Jersey. The closure of existing monitoring wells is in accordance with the selected remedy documented within the Record of Decision (ROD) for the site. The relocation of a section of perimeter fencing is to minimize potential future maintenance of a portion of the fencing that is subject to flooding and erosion of the adjacent riverbank. This work plan has been prepared in accordance with the Unilateral Administrative Order (UAO) dated December 27, 2009, between International Paper and the United States Environmental Protection Agency (USEPA) (Comprehensive Environmental Response Compensation and Liability Act (CERCLA) Docket No. 02-2008-2006) and the Administrative Agreement and Order on Consent (AOC) dated September 27, 2007, between Georgia-Pacific and the USEPA (CERCLA Docket No. 02-2007-2023).

1.2 Background

1.2.1 Monitoring Well and Piezometer Decommissioning

Due to the lack of identified groundwater quality impacts at the site, the ROD that was signed in 2011 includes the sealing of the remaining shallow monitoring wells as a component of the selected remedy. Monitoring wells and piezometers were installed during previous site investigations of the site conducted by Woodward Clyde Consultants (Woodward Clyde) and the USEPA.

In October 1994, eight ground water monitoring wells (MW-1 to MW-8) were installed by Woodward Clyde at the locations indicated on Figure 1. Monitoring wells MW-1, MW-2 and MW-3 were installed along the eastern side of the site, while monitoring wells MW-4 through MW-8 were installed along the western side of the site. Each of the wells was installed with its screened interval set just above bedrock. Total depths ranged from 11.5 to 28 feet below ground surface (fbgs). With the exception of MW-3 and MW-6, each of the wells was completed with a ten-foot screened interval. Both MW-3 and MW-6 were installed with 15-foot screened intervals. Construction details are presented in Table 1.

In November 2003, USEPA conducted an Integrated Assessment of the site that included the installation and sampling of ten piezometers (locations are indicated in Figure 1). The piezometers ranged in depth from 13 to 28 fbs, with screen lengths ranging from 3 to 11 feet. Details of the piezometers' installation are provided in Table 2.

Prior to the construction of a slope stabilization wall along the Delaware River in May 2007, Borbas Surveying and Mapping (Borbas) of Boonton, New Jersey, a New Jersey-licensed surveyor, was contracted to locate monitoring wells and piezometers that were within the wall construction limits and designated for decommissioning. Several of the wells and piezometers had previously been damaged during a removal action conducted by USEPA in 2004 or were covered with sediment and could not be located visually. Subsequently, three monitoring wells (MW-4, MW-5 and MW-6) and four piezometers (REAC-MW-1, REAC-MW-2, REAC-MW-5S and REAC-MW5D) were decommissioned in accordance with the requirements of NJAC 7:9D. Four piezometers along the stabilization wall construction area could not be found (REAC-MW-3, REAC-MW-4, REAC-MW-6 and REAC-MW-7) and, based on their locations beneath the stabilization wall, are presumed to be no longer accessible.

Based on this historical information, the remaining monitoring wells and piezometers that may still exist and therefore could require closure under the ROD include MW-1, MW-2, MW-3, MW-7, MW-8, REAC-MW-8 and REAC-MW-9. Monitoring well logs and New Jersey Department of Environmental Protection (NJDEP) Form As and Form Bs for the monitoring wells are presented in Appendix A. Also included in Appendix A are well records for the monitoring wells that were obtained as a result of a well search performed at the Hunterdon County Health Department prior to the 2007 well decommissioning activities. No records of NJDEP filings were identified for the piezometers installed by USEPA.

1.2.2 Fence Relocation

Site inspections are currently conducted on a quarterly basis and include inspections of the site stabilization wall and perimeter fencing. As of October 2011, areas of erosion were noted near the southern corner of the site's perimeter fence line, adjacent to the Delaware River (approximately 450 feet southeast of the southerly end of the stabilization wall). In this area, erosion has cut the riverbank very close to the existing fence. Figure 1 shows the general location in which erosion has been identified. Photos of the observed areas of erosion are

provided in Appendix B. Due to existing topography, this southern portion of the site, which is approximately 300 to 400 feet south of the extent of the landfill (as defined by previous visual and geophysical observations) and 400 feet south of the southerly end of the site's stabilization wall, is also most susceptible to flooding during periods of elevated water levels in the Delaware River. Due to the presence of the erosion and the susceptibility of the area to flooding, there is some concern regarding the long-term stability of the fence line in this area and, therefore, the location of the fence line will be slightly modified to address these concerns.

2.0 WORK PLAN

2.1 Monitoring Well and Piezometer Decommissioning

In accordance with the ROD, TRC will attempt to locate the remaining five monitoring wells (MW-1, MW-2, MW-3, MW-7 and MW-8) and two upgradient piezometers (REAC-MW-8 and REAC-MW-9) expected to still be present at the Crown Vantage Landfill site. Those wells and piezometers that can be located will then be closed in accordance with the well closure requirements of NJAC 7:9D-3.

Given that the wells were constructed as flush-mounted wells, and given the prevalence for flooding in the southern portion of the site, it is likely that the locations of the two wells (MW-7 and MW-8) located in the southern portion of the site have been silted over since they were last sampled in 1994. Therefore, prior to mobilizing for the well closure activities, a licensed surveyor will be used to attempt to locate the wells based on available well coordinates. A metal detector will also be used in attempting to locate the wells. The currently available well coordinates (as reported to NJDEP on the Form Bs that were filed after their installation) and piezometer coordinates are given only to the nearest second; as a result, the coordinates are only accurate to the nearest 100 feet and it may be impossible to pinpoint well and/or piezometer locations in the field.

For all monitoring wells and piezometers that can successfully be located in the field, a driller licensed in the State of New Jersey will be mobilized to remove any existing protective casings, terminate the well casings below the existing grade, tremie grout the wells with cement-bentonite grout, and install a concrete cap at the surface. The wells and piezometers will be closed in accordance with applicable New Jersey regulations set forth at NJAC 7:9D. Following the completion of the well decommissioning work, the driller will prepare a Well Abandonment

Report on the form prescribed by the NJDEP. The report will give the location and date the well was sealed, the permit number (if applicable) of the well sealed, the property owner name, address, lot and block, the total well depth, the well diameter and well casing materials, a cross-section of the sealed well; a description of the materials used to decommission the well, and the signature name and registration number of the driller who sealed the well. In accordance with NJAC 7:9D 3.1(1), the Well Abandonment Report will be submitted with a copy of all applicable well records to the USEPA and NJDEP within 90 days of the completion of sealing.

2.2 Fence Relocation

The location of the fence in the southern corner of the site will be slightly modified to minimize future maintenance in this area due to erosion of the adjacent riverbank and/or flooding impacts. The proposed layout of the new fence line is indicated in Figure 2. Approximately 300 feet of existing fencing will be removed and replaced.

In the fence replacement area, the existing fence (including fence posts, fence fabric, and concrete post bases) will be removed and new fence posts will be installed with new fence fabric run between the new fence posts. The fence design is presented in the technical specifications and project drawings provided in Appendix C. The new fencing will be marked with warning signs in the same manner as the existing fencing. The off-site disposal of fencing and concrete fence post bases will be the responsibility of the fencing contractor. All fence replacement work will be conducted in accordance with the existing Health and Safety Plan (Appendix C to the Remedial Investigation/Feasibility Study Work Plan, Volume I, TRC, August 2008). A TRC inspector will be on-site during fence replacement activities.

As fence replacement will occur in an area well removed from the extent of the landfill (as defined in 1991 based on visual and geophysical observations), it is not anticipated that contaminated subsurface materials will be encountered or generated during the installation of new fence posts. To minimize the generation of waste excavation materials during fence installation, the majority of the fence posts will be driven in place. Corner posts and other structurally significant posts will be set in concrete footings. Any residual soil generated during the installation of the concrete footings will be visually inspected and monitored using a photoionization detector (PID) for signs of contamination. If no evidence of contamination is

observed, the excavated soil will be spread on the surface of the site within the interior of the perimeter fence.

If evidence of contamination is observed, the potentially impacted materials will be segregated onto plastic sheeting within the perimeter fencing and sampled for potential disposal purposes. The segregated materials will be covered with a secured plastic sheet to prevent exposure to precipitation until the final disposition of the materials is determined. Sampling of the segregated materials will involve the placement of a composite sample of the segregated soil into a stainless steel mixing bowl, mixing with a stainless steel spoon, and then placement of the sample into laboratory-supplied containers for Target Compound List (TCL) semivolatile organic compounds, TCL pesticides/PCBs, and Target Analyte List (TAL) metals analyses. A sample will also be collected directly into a sample bottle for TCL volatile organic compound analysis from the area of the segregated soil pile that exhibits the highest PID reading or, if no elevated PID readings are observed, from the area of the pile that exhibits the greatest visual evidence of contamination. Surface soil sample labels will be completed with the following information:

- Sample ID;
- Collection date;
- Collection time;
- Personnel collecting the sample;
- Laboratory analysis required;
- Preservative; and
- Project number.

The sample bottles will be labeled, placed in a cooler with ice for delivery under chain-of-custody to the approved analytical laboratory, as described in the Quality Assurance Project Plan (QAPP) (Remedial Investigation/Feasibility Study Work Plan, Volume II, TRC, August 2008). Additional sample management and laboratory analysis information is provided in the QAPP.

Upon receipt of analytical results, the soil quality data will be compared to New Jersey Non-Residential Soil Remediation Standards (NJ NRSRS), as defined at NJAC 7:26D. If the results do not exceed the NJ NRSRS, the soils will be spread on the surface within the interior of the perimeter fence. If the NJ NRSRS are exceeded, the soils will remain in the covered segregation pile until an appropriate disposal facility can be identified and submitted to USEPA

for approval. Disposal notifications will be issued, as required by the previously referenced UAO and AOC, prior to the off-site disposal of impacted soils.

3.0 DOCUMENTATION

Following the completion of well closure and fence relocation activities, a letter report will be prepared documenting the completion of the activities, including a copy of the Well Abandonment Report submitted to NJDEP, any analytical results, and waste disposal documentation.

TABLE 1
Ground Water Monitoring Well Construction Details and Status
 Crown Vantage Landfill
 Alexandria Township, New Jersey

Monitoring Well Data						Elevations		Coordinates		Material Screened	Status
Well Number	Date Installed	NJDEPE Well Permit	Well Depth (ft)	Screened Interval (ft)	Screen Length (ft)	Ground (ft)	Top of Casing (ft)	Longitude	Latitude		
MW-1	10/27/1994	24-32475	28	18-28	10	129.64	129.52	W 75 04' 50"	N 40 33' 11"	Gravel and sand	Unknown
MW-2	10/27/1994	24-32476	26	16-26	10	130.02	129.84	W 75 04' 45"	N 40 33' 07"	16-18.5: Silty clay 18.5-26: gravelly sand	Unknown
MW-3	10/24/1994	24-32477	26	11-26	15	131.06	130.89	W 75 04' 40"	N 40 33' 02"	11-14: sand and silt 14-26: sandy gravel, cobbles	Unknown
MW-4	10/18/1994	24-32478	11.5	1.5-11.5	10	109.29	109.09	W 75 04' 53"	N 40 33' 09"	Cobbles, silty and gravelly sand 9-11.5: Clay w/ gravel	Formally abandoned in 2007
MW-5	10/19/1994	24-32479	12	2-12	10	110.68	110.58	W 75 04' 52"	N 40 33' 07"	Silt, sand and gravel	Formally abandoned in 2007
MW-6	10/26/1994	24-32480	21.5	6.5-21.5	15	117.74	117.62	W 75 04' 46"	N 40 33' 02"	Sand, silt, gravel and clay	Formally abandoned in 2007
MW-7	10/25/1994	24-32481	13	3-13	10	115.32	115.21	W 75 04' 44"	N 40 33' 09"	3-6: Silty sand 6-13: Gravel, clay, sand	Unknown
MW-8	10/24/1994	24-32482	14	4-14	10	118.07	117.83	W 75 04' 43"	N 40 33' 00"	4-10: Sand and silt 10-14: Gravel, sand and clay	Unknown

Notes

1. Depths are reported in feet below ground surface
2. All monitoring wells are constructed from 4" ID schedule 40 PVC with 0.10 slot
3. All wells, except MW-4 and MW-5 were constructed with flushmount protective casings.

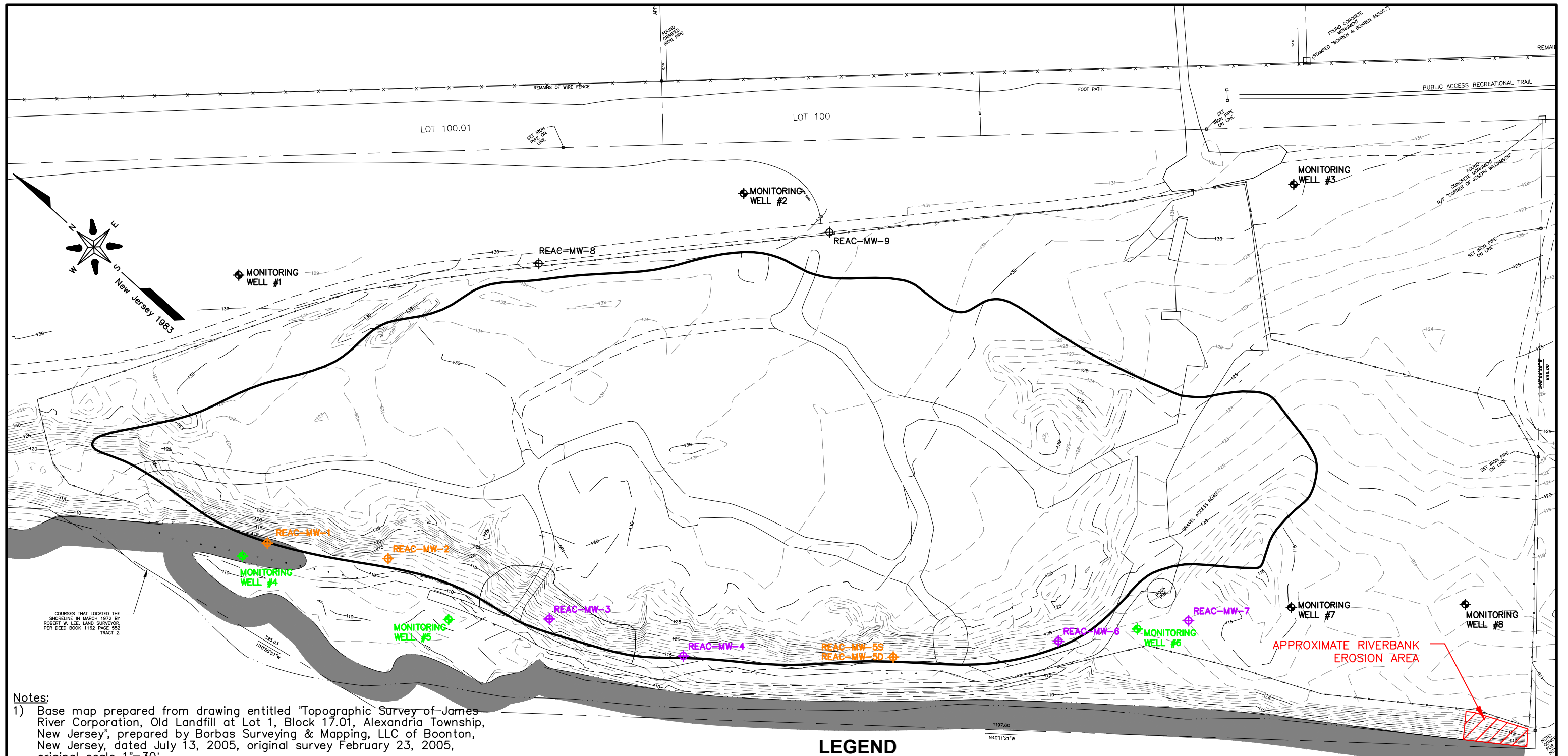
TABLE 2
Piezometer Construction Details and Status

Crown Vantage Landfill
Alexandria Township, New Jersey

Piezometer Data				Elevation ¹	Coordinates		Status
Piezometer Number	Piezometer Depth (ft)	Screened Length (ft)	PVC Stick-Up (ft)	(ft)	Longitude	Latitude	
REAC-MW-1	13	10	1.8	109.40	W 75 04' 51"	N 40 33' 10"	Formally abandoned in 2007
REAC-MW-2	15	10	1.7	111.77	W 75 04' 50"	N 40 33' 08"	Formally abandoned in 2007
REAC-MW-3	16	11	2	113.84	W 75 04' 49"	N 40 33' 07"	Presumed inaccessible based on location beneath the stabilization wall ²
REAC-MW-4	20	11	NA	116.31	W 75 04' 49"	N 40 33' 06"	Presumed inaccessible based on location beneath the stabilization wall ²
REAC-MW-5S	16	5	2	115.67	NA	NA	Formally abandoned in 2007
REAC-MW-5D	20	8	2	115.66	W 75 04' 47"	N 40 33' 04"	Formally abandoned in 2007
REAC-MW-6	20	8	1.9	117.22	W 75 04' 45"	N 40 33' 03"	Presumed inaccessible based on location beneath the stabilization wall ²
REAC-MW-7	15	8	1.8	116.50	W 75 04' 44"	N 40 33' 02"	Presumed inaccessible based on location beneath the stabilization wall ²
REAC-MW-8	28	3	1.1	NA	W 75 04' 46"	N 40 33' 09"	Unknown
REAC-MW-9	28	3	1.2	NA	W 75 04' 43"	N 40 33' 07"	Unknown

Notes

1. Elevation information did not indicate whether the measured elevation represented the top of casing or ground elevation. Elevation of Delaware River on date of elevation measurements was 108.07.
 2. These piezometers could not be located by a surveyor prior to stabilization wall construction.
 3. Data provided by EPA, February 26, 2008. Decimal latitude and longitude coordinates have been changed to degree/minute/second format to be consistent with Table 1.
- NA = Not available



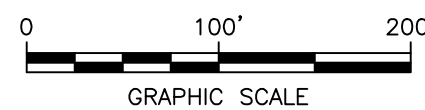
COURSES THAT LOCATED THE SHORELINE IN MARCH 1972 BY ROBERT W. LEE, LAND SURVEYOR, PER DEED BOOK 1162 PAGE 552 TRACT 2.

Notes:

- 1) Base map prepared from drawing entitled "Topographic Survey of James River Corporation, Old Landfill at Lot 1, Block 17.01, Alexandria Township, New Jersey", prepared by Borbas Surveying & Mapping, LLC of Boonton, New Jersey, dated July 13, 2005, original survey February 23, 2005, original scale 1"=30'.
- 2) Location of monitoring wells and extent of landfill taken from drawing entitled "Monitoring Well Locations, James River Waste Disposal Area, Milford, New Jersey", prepared by Woodward-Clyde Consultants of Wayne New Jersey, dated February 3, 1995, original scale 1"=200'. Piezometer locations based on State Plane coordinates provided by EPA.
- 3) Elevation and horizontal datum from drawing referenced in Note #1 above:
Elevation Reference/Vertical Datum: NAVD88 by means of high accuracy dual frequency GPS from the National Geodetic Survey C.O.R. Network. Held station WIL 1, ellipsoid height (GRS80): 18.877 feet, applied GEOID03 to establish on site orthometric heights.
Horizontal Datum: New Jersey State Plan Coordinate System NAD83.
- 4) Inaccessible former piezometer locations represent piezometers whose locations were surveyed prior to stabilization wall construction but the piezometers could not be located. Stabilization wall features are now present over these locations.

LEGEND

	EXTENT OF LANDFILL BASED ON 1991 VISUAL AND GEOPHYSICAL OBSERVATIONS		REAC-MW-8	2003 EPA PIEZOMETER LOCATION TO BE SURVEYED AND FORMALLY ABANDONED
	EDGE OF RIVER AS OF APRIL 29, 2005		REAC-MW-1	FORMALLY ABANDONED PIEZOMETER LOCATION
	MONITORING WELL #1		REAC-MW-1	INACCESSIBLE FORMER PIEZOMETER LOCATION
	MONITORING WELL #4		MONITORING WELL #1	1994 GROUND WATER MONITORING WELL, PRELIMINARY GROUND WATER INVESTIGATION REPORT, FEBRUARY 1995 TO BE SURVEYED AND FORMALLY ABANDONED
	MONITORING WELL #5		MONITORING WELL #4	FORMALLY ABANDONED MONITORING WELL LOCATION

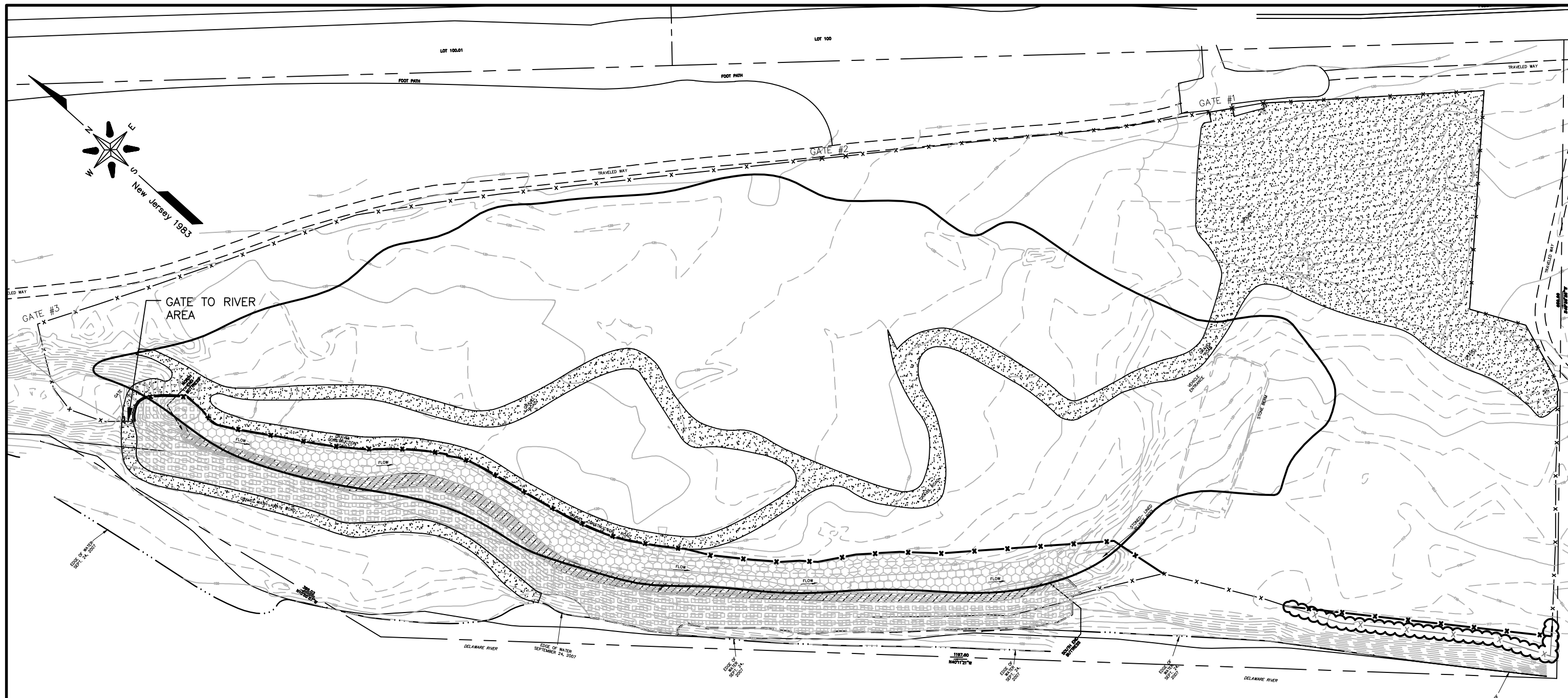


21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

CROWN VANTAGE LANDFILL
ALEXANDRIA TOWNSHIP, NEW JERSEY

FIGURE 1
MONITORING WELL/PIEZOMETER
AND EROSION AREA LOCATIONS

Date: 11/12/12 Project No. 164117.000160.000001

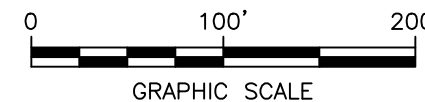


Notes:

- 1) Base map prepared from drawing entitled Final As-Built Survey, Crown Vantage Landfill Slope Stabilization Measures, Lot 1 Block 17.01, Hunterdon County, Alexandria Township, New Jersey", Dated 10/25/07 (3 sheets), Scale: 1"=40' by ENSR Corporation.
- 2) Extent of landfill taken from drawing entitled "Monitoring Well Locations, James River Waste Disposal Area, Milford, New Jersey", prepared by Woodward-Clyde Consultants of Wayne New Jersey, dated February 3, 1995, original scale 1"=200'.
- 3) Elevation and horizontal datum from drawing referenced in Note #1 above:
Elevation Reference/Vertical Datum: NAVD88 by means of high accuracy dual frequency GPS from the National Geodetic Survey C.O.R. Network. Held station WIL 1, ellipsoid height (GRS80): 18.877 feet, applied GEOID03 to establish on site orthometric heights.
Horizontal Datum: New Jersey State Plan Coordinate System NAD83.

LEGEND

	EXTENT OF LANDFILL BASED ON 1991 VISUAL AND GEOPHYSICAL OBSERVATIONS
	EXTENT OF STONE-LINED SWALE
	EXTENT OF ARMOR/SCOUR PROTECTION
	GEOWEB® WALL
	EXISTING FENCE REMOVAL
	PROPOSED FENCING LAYOUT



TRC 21 Griffin Road North
Windsor, CT 06095
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CROWN VANTAGE LANDFILL
ALEXANDRIA TOWNSHIP, NEW JERSEY

**FIGURE 2
PROPOSED FENCE
RELOCATION LAYOUT**

Date: 11/12/12 Project No. 164117.000160.000001

APPENDIX A

MONITORING WELL DOCUMENTATION

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists

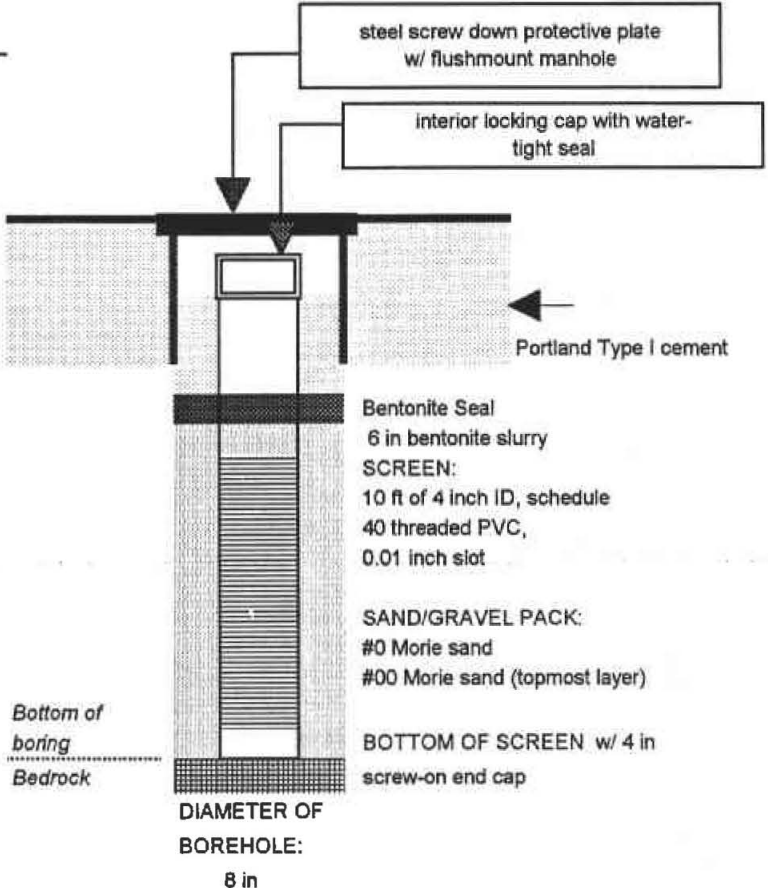
CONSTRUCTION OF MONITORING WELL: MW- 1

Project name & location JAMES RIVER OLD LANDFILL, MILFORD NJ	NJDEP well permit No. 24-32475	Elevation datum NGVD 1929
Drilling company SAMUEL STOTHOFF INC.	Surveyor Brokaw Deriso Assoc.	Ground elevation 129.64 ft
Date and time of completion 10/27/94 - 0830	Longitude W 74 04' 50"	Top of steel casing elevation NA
Inspector K.SMITH	Latitude N 40 33' 11"	Top of riser pipe elevation 129.52 ft

- A = Top of Ground Surface
- B = Top of Riser
- C = Top of Sand Pack
- D = Top of Screen
- E = Bottom of Screen
- F = Top of Bedrock

ELEV. (ft above MSL)	DEPTHS (ft below ground)
----------------------------	--------------------------------

GENERALIZED SOIL DESCRIPTION:	129.64	A	0
0-12 ft. Brown sandy SILT and silty f. SAND.	129.52	B	0.12
12-15 ft: Cobbles	114.64	C	15
15 - 29ft: Brown sandy GRAVEL	111.64	D	18
29-30 ft: SAND			
30 ft: Red clay and shale bedrock (Brunswick Fm).	101.64	E	28
	99.64	F	30



REMARKS (Installation, development) :

Materials: 4 bags x 100lbs plus 2 x 50 lbs #0 Morie sand, 1 bag x 100 lbs #00 Morie sand, 1 bag Bentonite, 8 bags Portland type I cement.

Note: Spooned to 30 ft— refusal at bedrock. Augered to 30 ft. About 2 ft. of material entered the bottom of the hole by suction when the auger plug was removed. The bottom of the screen rests at 28 ft.

Developed 1 hr. with airlift method.

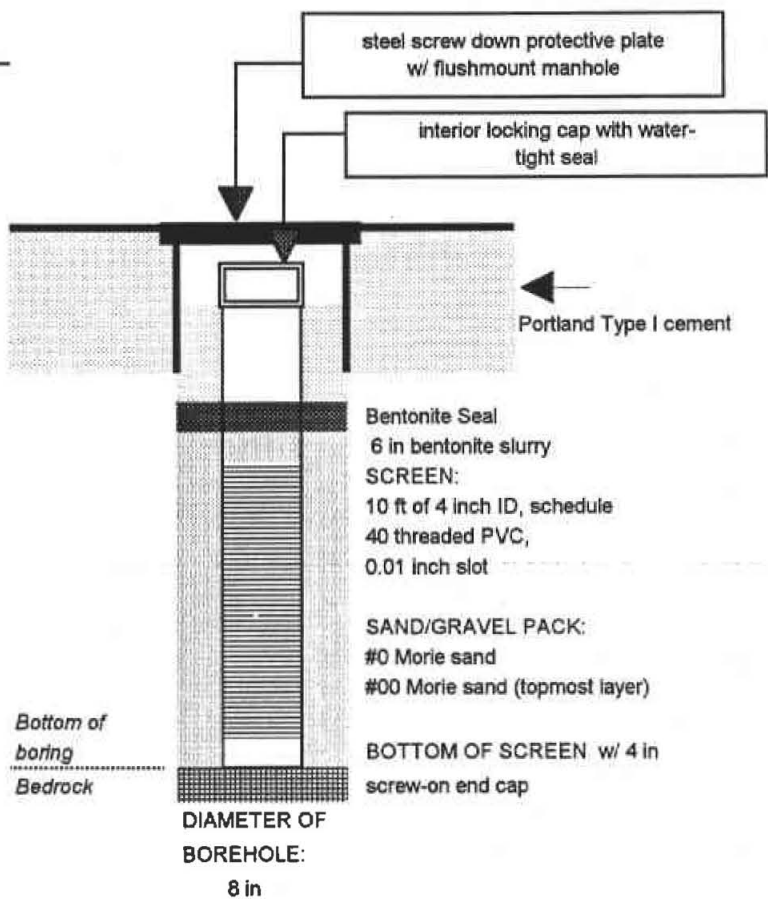
WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists

CONSTRUCTION OF MONITORING WELL: MW- 2

Project name & location JAMES RIVER OLD LANDFILL, MILFORD NJ	NJDEP well permit No. 24-32476	Elevation datum NGVD 1929
Drilling company SAMUEL STOTHOFF INC.	Surveyor Brokaw Deriso Assoc.	Ground elevation 130.02 ft
Date and time of completion 10/27/94 - 1300	Longitude W 75 04' 45"	Top of steel casing elevation NA
Inspector K.SMITH	Latitude N 40 33' 07"	Top of riser pipe elevation 129.84 ft

	ELEV. (ft above MSL)		DEPTHS (ft below ground)
A = Top of Ground Surface		A	0
B = Top of Riser		B	0.18
C = Top of Sand Pack		C	13
D = Top of Screen		D	16
E = Bottom of Screen		E	26
F = Top of Bedrock		F	27

GENERALIZED SOIL DESCRIPTION:	130.02	A	0	
0-18.5 ft: Brown clayey SILT, f. sand and silty CLAY.	129.84	B	0.18	
18.5 - 25 ft: Brown gravelly SAND	117.02	C	13	
25 - 27 ft: Red-brown weathered shale	114.02	D	16	
27 ft: Competent bedrock. (Brunswick Fm.)	104.02	E	26	<i>Bottom of boring</i>
	103.02	F	27	<i>Bedrock</i>



REMARKS (Installation, development) :

Materials: 5.25 bags x 100lbs of #0 Morie sand, 1 bag x 100 lbs #00 Morie sand, 1 bag Bentonite, 8 bags Portland type I cement.

Note: Spooned to 27 ft, augered to 27 ft. About 1 ft. of material heaved in while pulling augers. Bottom of well is at 26 ft.

Developed 1.75 hr. with airlift method.

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists

CONSTRUCTION OF MONITORING WELL: MW- 3

Project name & location JAMES RIVER OLD LANDFILL, MILFORD NJ	NJDEP well permit No. 24-32477	Elevation datum NGVD 1929
Drilling company SAMUEL STOTHOFF INC.	Surveyor Brokaw Deriso Assoc.	Ground elevation 131.06 ft
Date and time of completion 10/24/94 - 1315	Longitude W 75 04' 40"	Top of steel casing elevation NA
Inspector K.SMITH	Latitude N 40 33' 02"	Top of riser pipe elevation 130.89 ft

- A = Top of Ground Surface
- B = Top of Riser
- C = Top of Sand Pack
- D = Top of Screen
- E = Bottom of Screen
- F = Top of Bedrock

ELEV. (ft above MSL)	DEPTHS (ft below ground)
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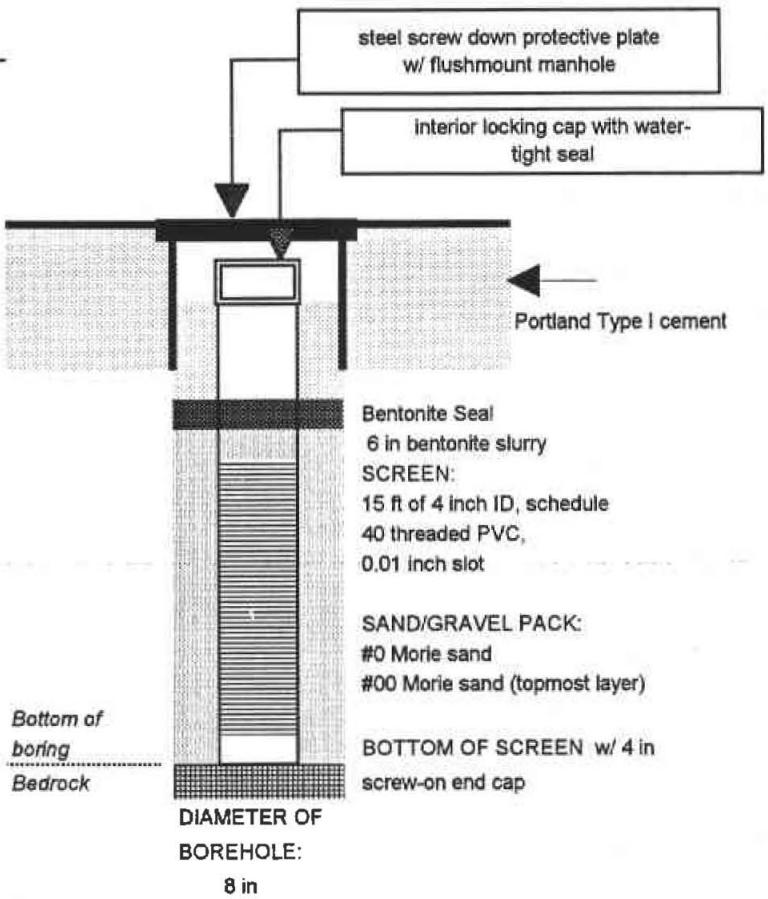
GENERALIZED SOIL DESCRIPTION:

0-14 ft:
Tan f. silty SAND and sandy SILT.

14 - 26 ft:
Red-brown sandy GRAVEL and cobbles

26 ft:
Red-brown clay and red sandstone (bedrock- Brunswick Fm.)

131.06	A	0
130.89	B	0.17
125.06	C	6
120.06	D	11
105.06	E	26
105.06	F	26



REMARKS (Installation, development) :

Materials: 16 bags x 50lbs of #0 Morie sand, 1 bag x 50 lbs #00 Morie sand, 1 bag Bentonite, 15 bags Portland type I cement.

Note: Could not construct well in original borehole. Borehole was re-augered nearby and bedrock was encountered 1 ft. shallower than in original.

Developed 1.75 hr. with airlift method.

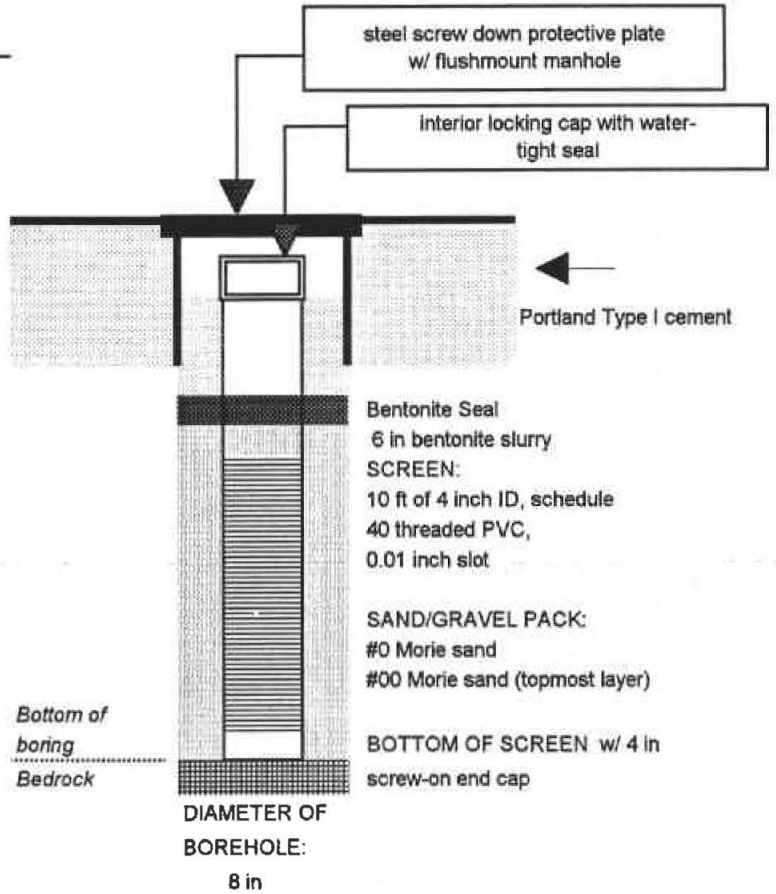
WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists

CONSTRUCTION OF MONITORING WELL: MW-7

Project name & location JAMES RIVER OLD LANDFILL, MILFORD NJ	NJDEP well permit No. 24-32481	Elevation datum NGVD 1929
Drilling company SAMUEL STOTHOFF INC.	Surveyor Brokaw Deriso Assoc.	Ground elevation 115.32 ft
Date and time of completion 10/25/94 - 1145	Longitude W 75 04' 44"	Top of steel casing elevation NA
Inspector K.SMITH	Latitude N 40 33' 09"	Top of riser pipe elevation 115.21 ft

	ELEV. (ft above MSL)	DEPTHS (ft below ground)
A = Top of Ground Surface		
B = Top of Riser		
C = Top of Sand Pack		
D = Top of Screen		
E = Bottom of Screen		
F = Top of Bedrock		

GENERALIZED SOIL DESCRIPTION:	115.32	A	0
0 - 4 ft: Dk. brown organic silt and sand.	115.21	B	0.11
4 - 6 ft: Lt. brown f. silty SAND	113.82	C	1.5
6 - 13 ft: Red-brown gravel, clay and sand, becoming compacted at 11 ft.	112.32	D	3
13 ft: Red shale bedrock (Brunswick Fm.)	102.32	E	13
	102.32	F	13



REMARKS (Installation, development):

Materials: 12 bags x 50lbs of #0 Morie sand, 1 bag x 50 lbs #00 Morie sand, 1/2 bag Bentonite, Portland type I cement.

Developed for 1.5 hrs. (until clear) with centrifugal pump.

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists

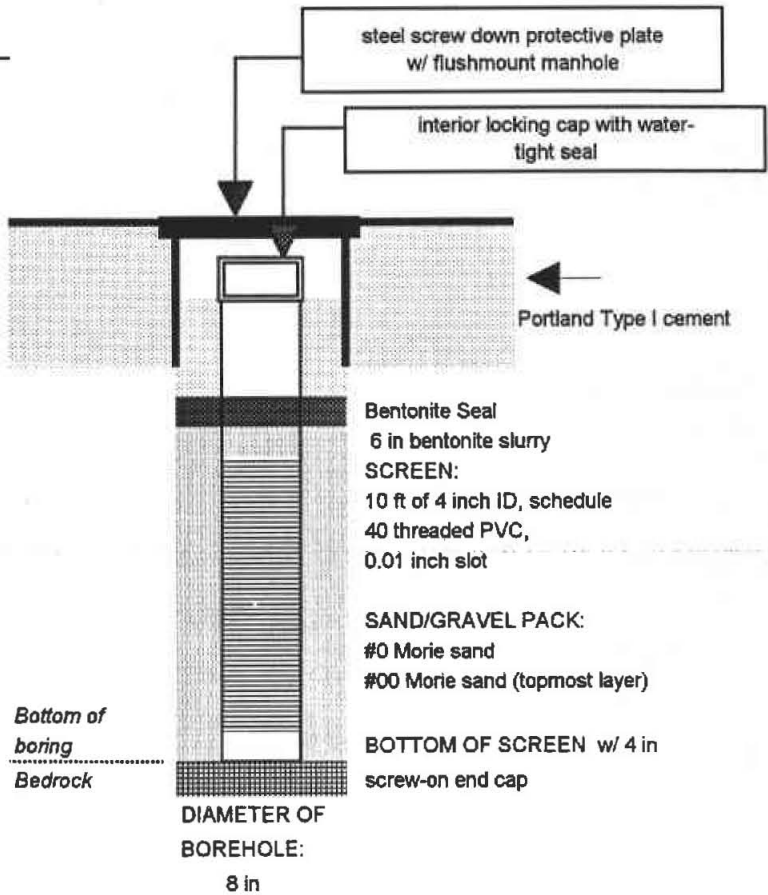
CONSTRUCTION OF MONITORING WELL: MW- 8

Project name & location JAMES RIVER OLD LANDFILL, MILFORD NJ	NJDEP well permit No. 24-32482	Elevation datum NGVD 1929
Drilling company SAMUEL STOTHOFF INC.	Surveyor Brokaw Deriso Assoc.	Ground elevation 118.07 ft
Date and time of completion 10/24/94 - 1630	Longitude W 75 04' 43"	Top of steel casing elevation NA
Inspector K.SMITH	Latitude N 40 33' 00"	Top of riser pipe elevation 117.83 ft

- A = Top of Ground Surface
- B = Top of Riser
- C = Top of Sand Pack
- D = Top of Screen
- E = Bottom of Screen
- F = Top of Bedrock

ELEV. (ft above MSL)	DEPTHS (ft below ground)
----------------------------	--------------------------------

GENERALIZED SOIL DESCRIPTION:	118.07	A	0
0 - 2 ft: Dk. brown organic sandy SILT.	117.83	B	0.24
2 - 10 ft: Lt. brown to gray f. silty SAND / sandy silt.	116.57	C	1.5
10 - 14 ft: Red-brown gravel, sand, and clay (becoming hard and compacted).	114.07	D	4
14 ft: Red shale bedrock (Brunswick Fm.)	104.07	E	14
	104.07	F	14



REMARKS (Installation, development) :

Materials: 10 bags x 50lbs of #0 Morie sand, 1 bag x 50 lbs #00 Morie sand, 1/2 bag Bentonite, Portland type I cement.

Developed for 1.5 hrs. with centrifugal pump.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(one form must be completed for each well)

Name of Permittee: James River Packaging Corporation
 Name of Facility: Riegel Packaging Papers Division (Milford)
 Location: Alexandria, New Jersey
 NJPDES Permit No: Not Applicable

CERTIFICATION

Well Permit Number (as assigned by NJDEPE's Bureau of Water Allocation): 24 -32475
 Owner's Well Number (as shown on the application or plans): MW-1
 Well Completion Date: 10/27/94
 Distance from Top of Casing (cap off) to Ground Surface (100th of one foot): 0.12
 Total Depth of Well to the Nearest 1/2 Foot: 28.0
 Depth to Top of Screen from Top of Casing (100th of one foot): 14.88
 Screen Length (or length of open hole) in feet: 10
 Screen or Slot Size: 0.01 inch
 Screen or Slot Material: PVC sch. 40, #0 Morie sand pack
 Casing Material (PVC, steel, other [specify]): PVC
 Casing Diameter (inches): 4 inches
 Static Water Level from Top of Casing at Time of Installation (100th of one foot): 22.50
 Yield (gallons per minute): < 1 gpm
 Development Technique (specify): airline
 Length of Time Well is Developed/Pumped/Bailed: 1 hour
 Lithologic Log: see Appendix A (boring logs)

Authentication

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Michael J. Carnese
Woodward-Clyde Consultants
 Name (Type or Print)

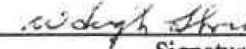

 Signature

923 ARK
 Certification or License Number

Seal

Certification by Executive Officer or Duly Authorized Representative

W. Leigh Short
 Name (Type or Print)
 Vice President
Woodward-Clyde Consultants
 Title


 Signature

December 19, 1994
 Date

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(one form must be completed for each well)

Name of Permittee: James River Packaging Corporation
 Name of Facility: Riegel Packaging Papers Division (Milford)
 Location: Alexandria, New Jersey
 NJPDES Permit No: Not Applicable

CERTIFICATION

Well Permit Number (as assigned by NJDEPE's Bureau of Water Allocation): 24 -32476
 Owner's Well Number (as shown on the application or plans): MW-2
 Well Completion Date: 10/27/94
 Distance from Top of Casing (cap off) to Ground Surface (100th of one foot): 0.18
 Total Depth of Well to the Nearest 1/2 Foot: 26.0
 Depth to Top of Screen from Top of Casing (100th of one foot): 12.82
 Screen Length (or length of open hole) in feet: 10
 Screen or Slot Size: 0.01 inch
 Screen or Slot Material: PVC sch. 40, #0 Morie sand pack
 Casing Material (PVC, steel, other [specify]): PVC
 Casing Diameter (inches): 4 inches
 Static Water Level from Top of Casing at Time of Installation (100th of one foot): 22.67
 Yield (gallons per minute): < 1 gpm
 Development Technique (specify): airline
 Length of Time Well is Developed/Pumped/Bailed: 1.75 hour
 Lithologic Log: see Appendix A (boring logs)

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Woodward-Clyde Consultants
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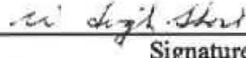

 Signature

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Seal

Certification by Executive Officer or Duly Authorized Representative

W. Leigh Short
 Name (Type or Print)
 Vice President
Woodward-Clyde Consultants
 Title


 Signature
December 19, 1994
 Date

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(one form must be completed for each well)

Name of Permittee: James River Packaging Corporation
 Name of Facility: Riegel Packaging Papers Division (Milford)
 Location: Alexandria, New Jersey
 NJPDES Permit No: Not Applicable

CERTIFICATION

Well Permit Number (as assigned by NJDEPE's Bureau of Water Allocation): 24 -32477
 Owner's Well Number (as shown on the application or plans): MW-3
 Well Completion Date: 10/24/94
 Distance from Top of Casing (cap off) to Ground Surface (100th of one foot): 0.17
 Total Depth of Well to the Nearest 1/2 Foot: 26.0
 Depth to Top of Screen from Top of Casing (100th of one foot): 5.83
 Screen Length (or length of open hole) in feet: 15
 Screen or Slot Size: 0.01 inch
 Screen or Slot Material: PVC sch. 40, #0 Morie sand pack
 Casing Material (PVC, steel, other [specify]): PVC
 Casing Diameter (inches): 4 inches
 Static Water Level from Top of Casing at Time of Installation (100th of one foot): 23.38
 Yield (gallons per minute): < 1 gpm
 Development Technique (specify): airline
 Length of Time Well is Developed/Pumped/Bailed: 1.75 hour
 Lithologic Log: see Appendix A (boring logs)

Authentication

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Michael J. Carnese
Woodward-Clyde Consultants
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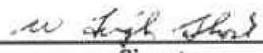

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Seal

Certification by Executive Officer or Duly Authorized Representative

W. Leigh Short
 Name (Type or Print)
Vice President
Woodward-Clyde Consultants
 Title


 Signature

December 19, 1994
 Date

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(one form must be completed for each well)

Name of Permittee: James River Packaging Corporation
 Name of Facility: Riegel Packaging Papers Division (Milford)
 Location: Alexandria, New Jersey
 NJPDES Permit No: Not Applicable

CERTIFICATION

Well Permit Number (as assigned by NJDEPE's Bureau of Water Allocation): 24 -32481
 Owner's Well Number (as shown on the application or plans): MW-7
 Well Completion Date: 10/25/94
 Distance from Top of Casing (cap off) to Ground Surface (100th of one foot): 0.11
 Total Depth of Well to the Nearest 1/2 Foot: 13.0
 Depth to Top of Screen from Top of Casing (100th of one foot): 1.39
 Screen Length (or length of open hole) in feet: 10
 Screen or Slot Size: 0.01 inch
 Screen or Slot Material: PVC sch. 40, #0 Morie sand pack
 Casing Material (PVC, steel, other [specify]): PVC
 Casing Diameter (inches): 4 inches
 Static Water Level from Top of Casing at Time of Installation (100th of one foot): 9.00
 Yield (gallons per minute): 1 gpm
 Development Technique (specify): centrifugal pump
 Length of Time Well is Developed/Pumped/Bailed: 1.5 hour
 Lithologic Log: see Appendix A (boring logs)

Authentication

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Michael J. Carnese
 Woodward-Clyde Consultants

 Name (Type or Print)



 Signature

923 ARK

 Certification or License Number

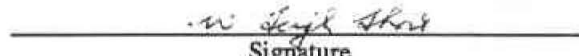
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Certification by Executive Officer or Duly Authorized Representative

W. Leigh Short

 Name (Type or Print)
 Vice President
 Woodward-Clyde Consultants

 Title



 Signature

 December 19, 1994

 Date

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION

(one form must be completed for each well)

Name of Permittee: James River Packaging Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No: Not Applicable

CERTIFICATION

Well Permit Number (as assigned by NJDEPE's Bureau of Water Allocation): 24 -32482
Owner's Well Number (as shown on the application or plans): MW-8
Well Completion Date: 10/24/94
Distance from Top of Casing (cap off) to Ground Surface (100th of one foot): 0.24
Total Depth of Well to the Nearest 1/2 Foot: 14.0
Depth to Top of Screen from Top of Casing (100th of one foot): 1.26
Screen Length (or length of open hole) in feet: 10
Screen or Slot Size: 0.01 inch
Screen or Slot Material: PVC sch. 40, #0 Morie sand pack
Casing Material (PVC, steel, other [specify]): PVC
Casing Diameter (inches): 4 inches
Static Water Level from Top of Casing at Time of Installation (100th of one foot): 11.37
Yield (gallons per minute): 1 gpm
Development Technique (specify): centrifugal pump
Length of Time Well is Developed/Pumped/Bailed: 1.5 hour
Lithologic Log: see Appendix A (boring logs)

Authentication

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Michael J. Carnese
Woodward-Clyde Consultants
Name (Type or Print)

[Handwritten Signature]
Signature

923 ARK
Certification or License Number

Seal

Certification by Executive Officer or Duly Authorized Representative

W. Leigh Short
Name (Type or Print)
Vice President
Woodward-Clyde Consultants
Title

[Handwritten Signature]
Signature

December 19, 1994
Date

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: James River Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No.: NJ

LAND SURVEYOR'S CERTIFICATION

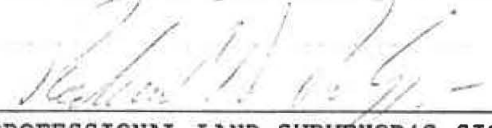
Well Permit Number (As assigned by NJDEPE's Water Allocation Section (609-984-6831): 24-32475

This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 04' 50"
Latitude (one-tenth of a second): North 40° 33' 11"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 129.52
Owner's Well Number (As shown on application or plans): MW-1

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.



PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Richard S. Pelizzoni, P.E., P.L.S.

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

NJ License No. 27892

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et. seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to be a major modification of the NJPDES permit.

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: James River Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No.: NJ


LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEPE's Water Allocation Section (609-984-6831): 24-32476
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 04' 45"
Latitude (one-tenth of a second): North 40° 33' 07"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 129.84
Owner's Well Number (As shown on application or plans): MW-2

AUTHENTICATION:

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GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: James River Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No.: NJ

LAND SURVEYOR'S CERTIFICATION


Well Permit Number (As assigned by NJDEPE's Water Allocation Section (609-984-6831): 24-32477

This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 04' 40"
Latitude (one-tenth of a second): North 40° 33' 02"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 130.89
Owner's Well Number (As shown on application or plans): MW-3

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


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PROFESSIONAL LAND SURVEYOR'S NAME
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THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: James River Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No.: NJ

LAND SURVEYOR'S CERTIFICATION

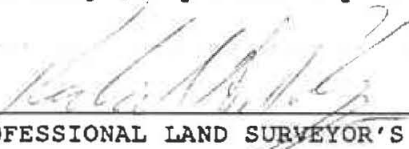
Well Permit Number (As assigned by NJDEPE's Water Allocation Section (609-984-6831): 24-32481

This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 04' 44"
Latitude (one-tenth of a second): North 40° 33' 09"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 115.21
Owner's Well Number (As shown on application or plans): MW-7

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.


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PROFESSIONAL LAND SURVEYOR'S NAME
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GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: James River Packaging Corporation
Name of Facility: Riegel Packaging Papers Division (Milford)
Location: Alexandria, New Jersey
NJPDES Permit No.: NJ


LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEPE's Water Allocation Section (609-984-6831): 24-32482
This number must be permanently affixed to the well casing.

Longitude (one-tenth of a second): West 75° 04' 43"
Latitude (one-tenth of a second): North 40° 33' 00"
Elevation of Top of Casing (cap off) (one-hundredth of a foot): 117.83
Owner's Well Number (As shown on application or plans): MW-8

AUTHENTICATION:

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NOV 14 1994

MONITORING WELL RECORD

**HUNTERDON COUNTY
HEALTH DEPARTMENT**

Well Permit No. 24 32475
Atlas Sheet Coordinates: 34 32 752

OWNER IDENTIFICATION - Owner: JANSEL RIVER CORPORATION
Address: 160 DEX 700
City: MILFORD State: NJ Zip Code: 08848

WELL LOCATION - If not the same as owner, please give address. Owner's Well No. MW-1
County: HUNTERDON Municipality: FRENCHTOWN TWP Lot No. 1 Block No. 17 01
Address: Milford-Frenchtown Road

TYPE OF WELL (as per Well Permit Categories): MONITORING Date well completed 10 / 20 / 94
Regulatory Program Requiring Well: LAND INVESTIGATION Case I.D. # _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Woodward Clyde Consultants Tele. # 201-785-0700

WELL CONSTRUCTION

Total depth drilled 28 ft.
Well finished to 28 ft.
Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: above grade
 flush mounted

Finished above grade, casing
Height (stick up) above land
surface _____ ft.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	--	--	--	
Outer Casing (Not Protective Casing)	0	18	4	Sch 40 PVC
Screen (Note slot size)	18	28	4	Sch 40 PVC .010 slot
Tail Piece	--	--	--	
Gravel Pack	15 16	18 28	12x4	#00 Gravel #0 Gravel
Annular Seal/Grout	14 0	15 14	12x4	Bentonite Slurry Portland Cement
Method of Grouting	Pressure grout with tremie line			

Was steel protective casing installed?
 Yes No

Static water level after drilling 22.9 ft.
Water level was measured using M-Scope
Well was developed for 1.25 hours at 1 gpm
Method of development Air lift

Was permanent pumping equipment installed? Yes No
Pump capacity _____ gpm
Pump type: _____

Drilling Method Hollow Stem Auger
Drilling Fluid _____ Type of Rig Acker Soil Max
Name of Driller Gary Bennett

Health and Safety Plan submitted? Yes No
Level of Protection used on site (circle one) None () C B A
N.J. License No. 1481
Name of Drilling Company _____

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' - 28'	Sand, silt, cobbles
28' -	Bedrock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Bennett Date 11/9/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

RECEIVED
NOV 14 1994

MONITORING WELL RECORD

HUNTERDON COUNTY
HEALTH DEPARTMENT

Well Permit No. 24 32476
Atlas Sheet Coordinates 24 32 752

OWNER IDENTIFICATION - Owner JAMES RIVER CORPORATION
Address PO BOX 780
City MILFORD State NJ Zip Code 08848

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-2
County HUNTERDON Municipality ALEXANDRIA TWP Lot No. 1 Block No. 17 01
Address Milford-Frenchtown Road

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10 / 21 / 94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. # _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Woodward Clyde Consultants Tele. # 201-785-0700

WELL CONSTRUCTION

Total depth drilled 26 ft.

Well finished to 26 ft.

Borehole diameter:

Top 12 in.

Bottom 12 in.

Well was finished: above grade
 flush mounted

Finished above grade, casing
Height (stick up) above land
surface _____ ft.

Was steel protective casing installed?
 Yes No

Static water level after drilling 25 ft.

Water level was measured using M-Scope

Well was developed for 1 hours at .5 gpm

Method of development Air lift

Was permanent pumping equipment installed? Yes No

Pump capacity _____ gpm

Pump type: _____

Drilling Method Hollow stem auger

Drilling Fluid _____ Type of Rig Acker Soil Max

Name of Driller Gary Bennett

Health and Safety Plan submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

N.J. License No. 1481

Name of Drilling Company _____

EMERALD DRILLING CO., INC.

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	-	-	-	-
Outer Casing (Not Protective Casing)	0	16	4	Sch 40 PVC
Screen (Note slot size)	16	26	4	Sch 40 PVC .010 slot
Tail Piece	-	-	-	-
Gravel Pack	13 14	14 26	12x4	#00 Gravel #0 Gravel
Annular Seal/Grout	12 0	13 12	12x4	Bentonite Slurry Portland Cement
Method of Grouting	Pressure grout with tremie line			

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0'	-	26'	Sand, silt, cobbles
26'	-		Bedrock

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Bennett

Date 11/4/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

RECEIVED
NOV 14 1994

MONITORING WELL RECORD

Well Permit No. 24 32477
Atlas Sheet Coordinates 24 32 752

HUNTERDON COUNTY

OWNER IDENTIFICATION HEALTH DEPARTMENT JAMES RIVER CORPORATION

Address PO BOX 780
City MILFORD State NO Zip Code 08848

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MM-3
County HUNTERDON Municipality ALEXANDRIA TWP Lot No. 1 Block No. 17.01
Address Milford-Frenchtown Road

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10 / 21 / 94
Regulatory Program Requiring Well LEAK INVESTIGATION Case I.D. # _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Woodward Clyde Consultants Tele. # 201-785-0700

WELL CONSTRUCTION

Total depth drilled 24 ft.

Well finished to 24 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: above grade
 flush mounted

Finished above grade, casing
Height (stick up) above land
surface _____ ft.

Was steel protective casing installed?
 Yes No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	-	-	-	-
Outer Casing (Not Protective Casing)	0	9	4	Sch 40 PVC
Screen (Note slot size)	9	24	4	Sch 40 PVC .010 slot
Tail Piece	-	-	-	-
Gravel Pack	6 7	7 24	12x4	#00 Gravel #0 Gravel
Annular Seal/Grout	5 0	6 5	12x4	Bentonite Slurry Portland Cement
Method of Grouting	Pressure grout with tremie line			

Static water level after drilling 20 ft.

Water level was measured using X-Scope

Well was developed for 1.25 hours at .5 gpm

Method of development Air lift

Was permanent pumping equipment installed? Yes No

Pump capacity _____ gpm

Pump type: _____

Drilling Method Hollow stem auger

Drilling Fluid _____ Type of Rig Acker Soil Max

Name of Driller Gary Bennett

Health and Safety Plan submitted? Yes No

Level of Protection used on site (circle one) None (D) C B A

N.J. License No. 1481

Name of Drilling Company _____

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

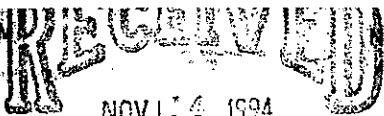
0' - 24' Sand, silt, cobbles

NATIONAL STATEMENT OF WORK

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Bennett Date 11/9/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.



NOV 14 1994

MONITORING WELL RECORD

HUNTERDON COUNTY
HEALTH DEPARTMENT

Well Permit No. 24 32481
Atlas Sheet Coordinates: 24 : 32 : 752

OWNER IDENTIFICATION - Owner: JAMES RIVER CORPORATION
Address: PO BOX 788
City: MILFORD State: NJ Zip Code: 08848

WELL LOCATION - If not the same as owner please give address: Owner's Well No. MW-7
County: HUNTERDON Municipality: ALEXANDRIA TWP Lot No. 1 Block No. 17-01
Address: Milford-Frenchtown Road

TYPE OF WELL (as per Well Permit Categories): MONITORING Date well completed 10 / 21 / 94
Regulatory Program Requiring Well: CANER INVESTIGATION Case I.D. # _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Woodward Clyde Consultants Tele. # 201-785-0700

WELL CONSTRUCTION

Total depth drilled 13 ft.

Well finished to 13 ft.

Borehole diameter:
Top 12 in.
Bottom 12 in.

Well was finished: above grade
 flush mounted

Finished above grade, casing
Height (stick up) above land
surface _____ ft.

Was steel protective casing installed?
 Yes No

Static water level after drilling 9.14 ft.

Water level was measured using M-Scope

Well was developed for 1 hours at 1 gpm

Method of development Centrifugal

Was permanent pumping equipment installed? Yes No

Pump capacity _____ gpm

Pump type: _____

Drilling Method Hollow stem auger

Drilling Fluid _____ Type of Rig Acker Soil Max

Name of Driller Gary Bennett

Health and Safety Plan submitted? Yes No

Level of Protection used on site (circle one) None (D) X B A

N.J. License No. 1481

Name of Drilling Company _____

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	-	-	-	-
Outer Casing (Not Protective Casing)	0	3	4	Sch 40 PVC
Screen (Note slot size)	3	13	4	Sch 40 PVC .010 slot
Tail Piece	-	-	-	-
Gravel Pack	1.5 2	2 13	12x4	#00 Gravel #0 Gravel
Annular Seal/Grout	1 0	1.5 1	12x4	Bentonite slurry Portland Cement
Method of Grouting	Mixed in 5 gallon pail & poured			

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' - 13' Sand, silt, cobbles

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Bennett Date 11/1/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

RECEIVED
NOV 14 1994

MONITORING WELL RECORD

**HUNTERDON COUNTY
HEALTH DEPARTMENT**

Well Permit No. 24-02482
Atlas Sheet Coordinates 24-12-752

OWNER IDENTIFICATION - Owner JAMES RIVER CORPORATION
Address PO BOX 780
City MILFORD State NJ Zip Code 08848

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW-8
County HUNTERDON Municipality ALPHEGETTA TWP Lot No. 1 Block No. 17 01
Address Milford-Frenchtown Road

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 10 / 24 / 94
Regulatory Program Requiring Well OWNER INVESTIGATION Case I.D. # _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Woodward Clyde Consultants Tele. # 201-785-0700

WELL CONSTRUCTION

Total depth drilled 13 ft.

Well finished to 13 ft.

Borehole diameter:

Top 12 in.

Bottom 12 in.

Well was finished: above grade
 flush mounted

Finished above grade, casing
at (stick up) above land
surface _____ ft.

Was steel protective casing installed?
 Yes No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing	-	-	-	-
Outer Casing (Not Protective Casing)	0	3	4	Sch 40 PVC
Screen (Note slot size)	3	13	4	Sch 40 PVC .010 slot
Tail Piece	-	-	-	-
Gravel Pack	1 2	2 13	12x4	#00 Gravel #0 Gravel
Annular Seal/Grout	0	1	12x4	Portland Cement
Method of Grouting	Mixed in 5 gallon pail & poured			

Static water level after drilling 11.44 ft.
Water level was measured using M-Scope
Well was developed for 1 hours at 1 gpm
Method of development Centrifugal
Was permanent pumping equipment installed? Yes No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Hollow stem auger
Drilling Fluid _____ Type of Rig Acker Soil Max
Name of Driller Gary Bennett
Health and Safety Plan submitted? Yes No
Level of Protection used on site (circle one) None (D) C B A
N.J. License No. 1481
Name of Drilling Company SARREL STRUCTURE CO., INC.

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0' - 13' Sand, silt, cobbles

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Gary Bennett Date 11/9/94

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

SERIAL # 42280

DWR-133M (10/93)

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
TRENTON, NJ

2432475
-THRU-

Permit No. 2432482

Mail to
NJDEPE
By Water Allocation
C
Trenton, NJ. 08625

MONITORING WELL PERMIT 01

VALID ONLY AFTER APPROVAL BY THE D.E.P.E.

COORD #: 24-32-752

Owner James River Corporation
Address PO Box 780
Milford, NJ 08848

Driller Samuel Strothoff Co., Inc.
Address PO Box 306
Flemington, NJ 08822

Name of Facility Former Ash Landfill
Address Milford - Frenchtown Road

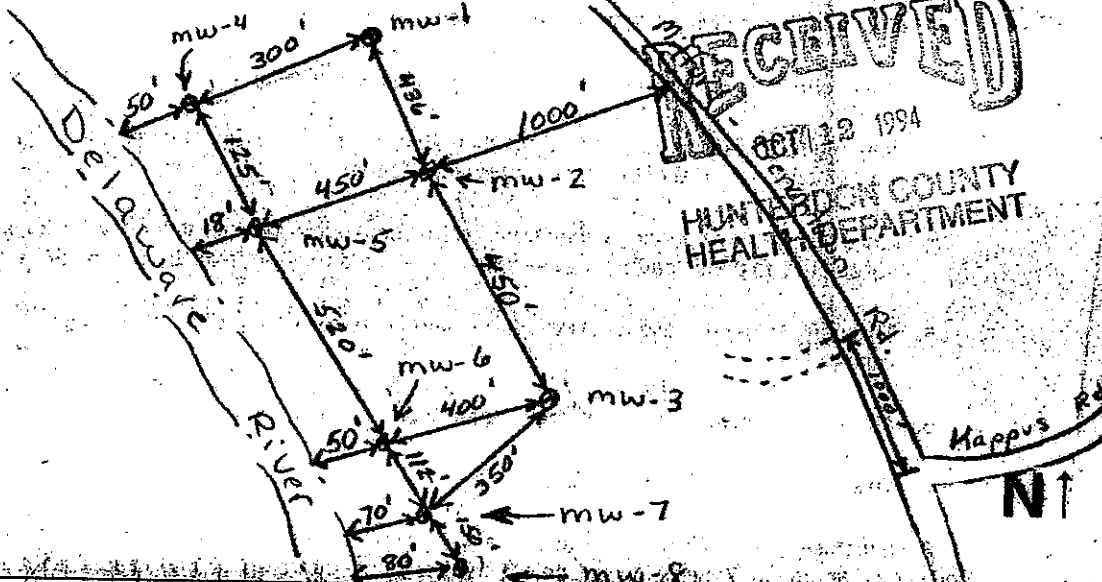
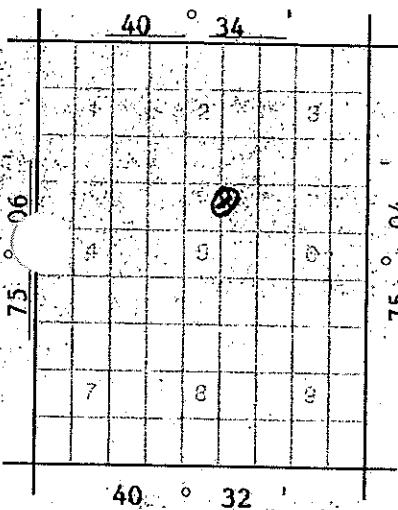
Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	25 Feet
# of Wells Applied for (max. 10)	8	Will pumping equipment be installed?	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
Type of Well (see reverse)	Monitoring	Will five pump capacity	GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1	17.01	Alexandria	Hunterdon

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch

State Atlas Map No. 24



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- Spill Site
- ISRA Site
- CERCLA (Superfund) Site
- RCRA Site
- Underground Storage Tank Site
- Operational Ground Water Permit Site
- Pretreatment and Residuals Site
- Water and Hazardous Waste Enforcement Case
- Water Supply Aquifer Test Observation Well
- Other (explain) **Owners Investigation**

CASE I.D. Number

This Space for Approval Stamp

WELL PERMIT APPROVED
NJDEP

SEP 30 1994

BUREAU OF WATER ALLOCATION

FOR D.E.P.E. SE Issuance of this permit is subject to the conditions attached (see next page) For monitoring purposes only

The well(s) may not be completed with more than 25 feet of total screen or uncased borehole.

REVERSE SIDE FOR IMPORTANT PROVISIONS AND REGULATIONS PERTAINING TO THIS PERMIT

in compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Signature of Driller *Richard Strothoff* License # 108511

Signature of Owner *Michael J. Lamore* as agent for James River Corporation

APPENDIX B

**PHOTOS OF EROSION AREAS
ALONG SOUTHERNMOST FENCE LINE**

Erosion Area (photo from outside of the southern corner of the fence line) – October 2011



Erosion Area (photo from outside fence line, near southern corner) – April 2012





APPENDIX C

TECHNICAL SPECIFICATIONS AND PROJECT DRAWINGS – CHAIN LINK FENCE INSTALLATION

SECTION 02831

FENCE, CHAIN LINK

PART 1 GENERAL

1.1 DESCRIPTION

This work consists of all labor, materials, and equipment necessary for furnishing and installing chain link fencing, gates and accessories in conformance with the lines, grades, and details as shown.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A392	Zinc-Coated Steel Chain-Link Fence Fabric
ASTM A817	Metal-Coated Steel Wire for Chain-Link Fence Fabric and Marcellled Tension Wire
ASTM C94/C94M	Ready-Mixed Concrete
ASTM F567	Standard Practice for Installation of Chain-Link Fence
ASTM F626	Standard Specifications for Fence Fittings
ASTM F900	Standard Specifications for Industrial and Commercial Swing Gates
ASTM F1043	Strength and Protective Coatings on Metal Industrial Chain-Link Fence Framework
ASTM F1083	Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures

1.3 SUBMITTALS

Submit the following to the ENGINEER.

1.3.1 Manufacturer's Catalog Data for:

- a. Chain-link fencing components including: fabric, posts, braces, framing, rails, and tension wires
- b. Accessories

1.3.2 Reserved

1.3.3 Certificates

Submit OSHA training certificates for all personnel who will be working at the site. Certificates must indicate that the individual has successfully completed 40-hour HAZWOPER training in accordance with 29 CFR 1910.120 and has successfully completed OSHA HAZWOPER 8-hour refresher training within the past 12 months.

1.4 DELIVERY, STORAGE, AND HANDLING

Deliver materials to SITE in an undamaged condition. Store materials off the ground to provide protection against oxidation caused by ground contact.

PART 2 PRODUCTS

Fence and accessories shall be products of manufacturers' regularly engaged in manufacturing items of type specified.

2.1 CHAIN-LINK FENCING AND ACCESSORIES

Materials shall conform to ASTM F1083 and ASTM A392 ferrous metals, zinc-coated; and detailed specifications forming the various parts thereto; and other requirements specified herein. Zinc-coat metal members (including fabric, posts, rails, hardware and other ferrous metal items) after fabrication shall be reasonably free of excessive roughness, blisters and sal-ammoniac spots.

2.1.1 Fabric

Provide selvage twisted at the top and twisted or knuckled at the bottom. Height of fabric, as indicated. ASTM A392 9-gauge wire woven in a 50 mm (2 inch) mesh.

2.1.2 Posts for Fencing

ASTM F1083, Grade SK-40A, round, zinc-coated steel. Dimensions and weights of posts shall conform to the tables in the ASTM Specification unless shown otherwise on the project plans. Provide post braces and truss rods for each corner, pull or end post. Provide truss rods with turnbuckles or other equivalent provisions for adjustment.

Mechanically Driven Line Posts: Roll-formed steel round, produced from structural steel. Comply with ASTM F 1043, Material Design Group II, with minimum yield strength of 45,000 psi and the following coating and strength and stiffness requirements: Coating: Type A, consisting of not less than 2.0 oz/square foot average zinc coating per ASTM A 653/A 653M.

2.1.3 Tension Wires

ASTM A817 and ASTM F626, zinc-coated, having minimum coating the same as the fence fabric.

2.1.4 Accessories

Provide accessories with coatings similar to that specified for chain-link fabric or framework. Provide all necessary accessory items (posts, post caps, clips, ties, bands, loop caps, collars, etc.) to provide a complete working fence system. Provide all accessories as necessary, accessories shall conform to ASTM F626

2.1.5 Concrete

ASTM C94/C94M, using 19 mm (3/4 inch) maximum-size aggregate, and having minimum compressive strength of 25 mPa (3000 psig) at 28 days.

Non-shrinking grout shall consist of one part Portland cement to three parts clean, well-graded sand, non-shrinking grout additive and the minimum amount of water to produce a workable mix.

PART 3 EXECUTION

3.1 SITE PREPARATION

3.1.1 Clearing and Grading

Where necessary, clear the fence line of trees, brush, and other obstacles to install fencing. Clear the minimum area necessary to complete the required work. Establish a graded, compacted fence line prior to fencing installation. Clearing/grubbing debris shall be chipped and spread onsite.

3.1.2 Excavation

Excavate to dimensions indicated for concrete-embedded items, except in bedrock. If bedrock is encountered before reaching the required depth, continue the excavation to the depth shown or 450 mm (18 inches) into the bedrock, whichever is less, and provide a minimum of 50 mm (2 inches) larger diameter than the outside diameter of the post. Clear loose material from post holes. Grade the area around finished concrete footings as shown.

The ENGINEER shall be notified at least three days prior to any onsite excavation for fencing installation. If the ENGINEER or Contractor suspect that contamination has been encountered during the excavation activities, the suspected contaminated material shall remain adjacent to the excavated area and be managed by the ENGINEER. All other excavated material shall be spread onsite adjacent to the excavation.

3.2

FENCE INSTALLATION

Install fence in accordance with fence manufacturer's written installation instructions except as modified herein. Install fence by properly trained crew, on previously prepared surfaces, to line and grade as shown. Install fence in accordance with ASTM F567 and with the manufacturer's printed installation instructions, except as modified herein or as shown. Maintain all equipment, tools, and machinery while on the project in sufficient quantities and capacities for proper installation of posts, chain links and accessories.

All onsite fence installation personnel shall have successfully completed 40-hour HAZWOPER training in accordance with 29 CFR 1910.120 and have successfully completed OSHA HAZWOPER 8-hour refresher training within the past 12 months.

3.2.1

Post Spacing and Setting

Provide line posts spaced equidistantly apart, not exceeding 10-feet on center. Do not exceed 500 feet on straight runs between braced posts. Provide corner or pull posts, with bracing in both directions, for changes in direction of 15 degrees or more, or for abrupt changes in grade.

Set posts plumb and in alignment. Where shown, set post in concrete footings of dimensions as shown, except in bedrock. Thoroughly compact concrete so as it to be free of voids and finished in a slope or dome to divert water running down the post away from the footing. Install posts in bedrock with a minimum of 25 mm (one inch) of non-shrinking grout around each post. Thoroughly work non-shrinking grout into the hole so as to be free of voids and finished in a slope or dome. Cure concrete and grout a minimum of 72 hours before any further work is done on the posts. Fit all exposed ends of post with caps. Provide caps that fit snugly and are weather-tight. Install supporting arms as recommended by the manufacturer and as shown.

In lieu of setting roll formed steel line posts in concrete, such posts shall be driven provided they are not part of a line brace assembly. The posts shall be driven a minimum of 4 feet into the ground. Adequate protection to the post tops shall be provided to prevent damage from driving operations. Damage to the zinc coating of otherwise acceptable driven posts shall be repaired by brushing with a steel wire brush to remove flaked and cracked zinc coating and by painting with enough coats to equal 3 mils thick of zinc-rich paint. Driven line posts shall be mechanically driven into firm, undisturbed or compacted soil per ASTM F 567. Verify that posts are set plumb, aligned, and at correct height and spacing.

Where soil conditions are such that the posts cannot be driven without deformation of the posts, or where soils are encountered that do not provide adequate in-ground stability of driven posts, the posts shall be set in concrete anchors.

3.2.2 Bracing

Brace corner, end, and pull posts to nearest post with a horizontal brace used as a compression member, placed at least 12 inches below top of fence, and a diagonal truss rod and truss tightener used as a tension member.

3.2.3 Tension Wires

Install top tension wire as shown on the drawings. Before installing chain-link fabric, pull wires taut. Place top tension wires within 8 inches of respective fabric line.

3.2.4 Fabric

Pull fabric taut and secure fabric to top wire and bottom wire, close to both sides of each post and at maximum intervals of 24 inches on center. Secure fabric to posts using stretcher bars, ties or clips spaced 15 inches on center, or by integrally weaving to integral fastening loops of end, corner, pull, and gate posts for full length of each post. Install fabric on opposite side of posts from area being secured. Install fabric so that bottom of fabric is 2 inches above ground level. Install fence fabric to provide approximately 2-inch deflection at center of fabric span between two posts, when a force of approximately 30 pounds is applied perpendicular to fabric. Fabric should return to its original position when force is removed.

3.3 ACCESSORIES INSTALLATION

Supply accessories (posts braces, tension bands, tension bars, truss rods, and miscellaneous accessories), as required and recommended by the manufacturer, to accommodate the installation of a complete fence, with fabric that is taut and attached properly to posts, rails, and tension wire.

3.4 REPAIR OF GALVANIZED SURFACES

Use galvanized repair compound (stick form or other method) where galvanized surfaces need field or shop repair. Repair surfaces in accordance with the manufacturer's printed directions.

3.5 DEMOLITION MATERIALS MANAGEMENT

Contractor shall properly dispose of all removed fencing materials (posts, fabric, bracing, concrete bases, etc.). Remove as much residual soil as practical from the excavated concrete bases prior to off-site disposal. Off-site disposal activities shall be conducted in accordance with the Consent Decree, which is provided as an addendum to the Subcontractor Agreement.

3.6 CLEANUP

Remove waste fencing materials, packaging materials, and other debris from the site.

END OF SECTION



- Legend**
- SITE PROPERTY BOUNDARY
 - LOT LINE
 - EDGE OF ARMOR/SCOUR PROTECTION
 - X--- CHAIN LINK SECURITY FENCE
 - 115--- GROUND CONTOUR (FT AMSL)
 - 118.77--- GROUND SPOT ELEVATION (FT AMSL)
 - BW--- BOTTOM OF WALL
 - TW--- TOP OF WALL
 - [Hatched Box] GEOWEB® WALL
 - [Dotted Box] DISTURBED AND CAPPED AREAS
 - [Horizontal Lines Box] TOPSOIL AND SEEDED AREAS
 - [Stippled Box] EXTENT OF STONE-LINED SWALE
 - [Vertical Lines Box] EXTENT OF ARMOR/SCOUR PROTECTION
 - [Wood Chip Box] WOOD CHIP AREAS
 - [Wavy Line Box] TREE/VEGETATION LINE

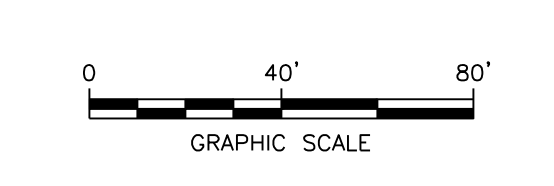
- NOTES:**
- 1) AS-BUILT SURVEY CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, SEPTEMBER 24-25, 2007. AS-BUILT SURVEY DRAWING IS ENTITLED, "AS-BUILT SURVEY OF JAMES RIVER CORPORATION OLD LANDFILL AT LOT 1 BLOCK 17.01 ALEXANDRIA TOWNSHIP, NEW JERSEY", DATED OCTOBER 18, 2007 (3 SHEETS).
 - 2) PROPERTY BOUNDARIES OBTAINED FROM DRAWING ENTITLED, "SURVEY OF PROPERTY LANDS NOW OR FORMERLY CROWN PAPER COMPANY TAX LOT 1 BLOCK 17.01, ALEXANDRIA TOWNSHIP, HUNTERDON COUNTY, NEW JERSEY", DATED JANUARY 14, 2006.
 - 3) ELEVATION REFERENCE/ VERTICAL DATUM: NAVD83 BY MEANS OF HIGH ACCURACY DUAL FREQUENCY GPS FROM THE NATIONAL GEODETIC SURVEY C.O.R. NETWORK. HELD STATION WILLIAMS HEIGHT (ORISD), 18,877 FEET, APPLIED GEOID03 TO ESTABLISH ON SITE ORTHOMETRIC HEIGHTS.
 - 4) HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD83.
 - 5) UNITS: US SURVEY FEET.
 - 6) THE UTILITIES SHOWN HAVE BEEN LOCATED FROM EVIDENCE OBSERVED ON THE SURFACE ONLY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
 - 7) ADDITIONAL TOPOGRAPHY ACQUIRED BY SURVEYOR VIA FIELD OBSERVATIONS BETWEEN JUNE 24 AND JUNE 29, 2005 TO EXPAND SURVEY AREA, AT THE REQUEST OF ENSR.
 - 8) TOP OF WALL AND BOTTOM OF WALL ELEVATIONS WERE RECORDED FROM TOP OF GEOWEB®. AS SUCH, IN-FILL OF GEOWEB® WALL IS APPROXIMATELY 1"-2" HIGHER THAN TOP OF THE WALL ELEVATION.
 - 9) CLEAR MINIMUM AMOUNT OF AREA NECESSARY TO REMOVE FENCING. THE CONTRACTOR IS RESPONSIBLE FOR THE OFFSITE DISPOSAL OF ALL FENCING MATERIAL AND CONCRETE POST BASES. CONTRACTOR SHALL NOT REMOVE EXISTING FENCING UNTIL THEY ARE READY TO BEGIN THE INSTALLATION OF THE NEW FENCING. IN NO CASE SHALL THE FENCING BE REMOVED MORE THAN ONE WEEK PRIOR TO THE INITIATION OF THE NEW FENCE INSTALLATION. PROVIDE REQUIRED/SUFFICIENT TEMPORARY SUPPORTS FOR REMAINING FENCE POSTS AND FENCE FABRIC UNTIL NEW FENCING IS INSTALLED. CONTRACTOR IS RESPONSIBLE FOR RE-TENSIONING EXISTING FENCE FABRIC AND/OR RE-SUPPORTING OR REPLACING DAMAGED FENCE POSTS CAUSED BY FAILURE TO PROVIDE PROPER TEMPORARY SUPPORTS.

REMOVE ALL FENCING, POSTS, ACCESSORIES, AND CONCRETE POST BASES FROM THIS AREA. SEE NOTE 9, THIS SHEET.

STATION 0+00
N 625,736
E 331,511

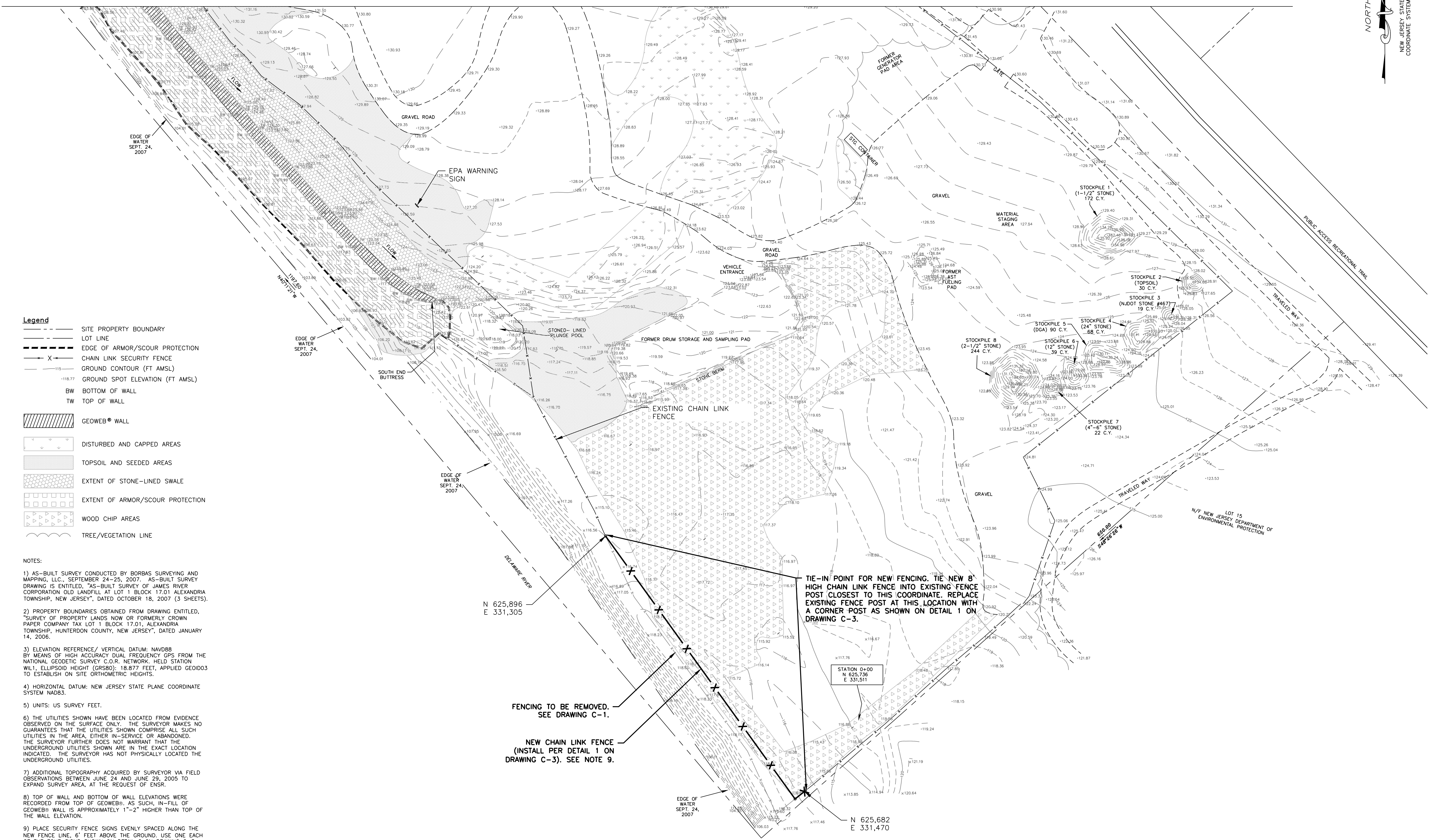
N 625,682
E 331,470

SOURCE:
DRAWING TITLED "FINAL AS-BUILT SURVEY, CROWN VANTAGE LANDFILL SLOPE STABILIZATION MEASURES, LOT 1, BLOCK 17.01, HUNTERDON COUNTY, ALEXANDRIA TOWNSHIP, NEW JERSEY" DRAWING NO. C-1, SCALE: 1"=40', DATED: 10/25/07, BY ENSR CORPORATION.



NO.	REVISIONS	DATE	APPROVAL
CROWN VANTAGE LANDFILL ALEXANDRIA TOWNSHIP, NEW JERSEY			
EXISTING FENCE REMOVAL			C-1

DESIGN: BAK	11/05/12
DRAWN: KDH	11/05/12
CHECKED:	
SCALE: 1"=40'	
PROJECT: 164117-000160-000100	
DRAWING	



- Legend**
- SITE PROPERTY BOUNDARY
 - LOT LINE
 - - - - - EDGE OF ARMOR/SCOUR PROTECTION
 - X CHAIN LINK SECURITY FENCE
 - - - - - GROUND CONTOUR (FT AMSL)
 - - - - - GROUND SPOT ELEVATION (FT AMSL)
 - BW BOTTOM OF WALL
 - TW TOP OF WALL
 - [Hatched Pattern] GEOWEB® WALL
 - [Disturbed Area Pattern] DISTURBED AND CAPPED AREAS
 - [Topsoil Area Pattern] TOPSOIL AND SEEDED AREAS
 - [Stone-lined Swale Pattern] EXTENT OF STONE-LINED SWALE
 - [Armor/Scour Protection Pattern] EXTENT OF ARMOR/SCOUR PROTECTION
 - [Wood Chip Area Pattern] WOOD CHIP AREAS
 - [Tree/Vegetation Line Pattern] TREE/VEGETATION LINE

- NOTES:**
- 1) AS-BUILT SURVEY CONDUCTED BY BORBAS SURVEYING AND MAPPING, LLC, SEPTEMBER 24-25, 2007. AS-BUILT SURVEY DRAWING IS ENTITLED, "AS-BUILT SURVEY OF JAMES RIVER CORPORATION OLD LANDFILL AT LOT 1 BLOCK 17.01 ALEXANDRIA TOWNSHIP, NEW JERSEY", DATED OCTOBER 18, 2007 (3 SHEETS).
 - 2) PROPERTY BOUNDARIES OBTAINED FROM DRAWING ENTITLED, "SURVEY OF PROPERTY LANDS NOW OR FORMERLY CROWN PAPER COMPANY TAX LOT 1 BLOCK 17.01, ALEXANDRIA TOWNSHIP, HUNTERDON COUNTY, NEW JERSEY", DATED JANUARY 14, 2006.
 - 3) ELEVATION REFERENCE/ VERTICAL DATUM: NAVD83 BY MEANS OF HIGH ACCURACY DUAL FREQUENCY GPS FROM THE NATIONAL GEODETIC SURVEY C.O.R. NETWORK. HELD STATION W/L1, ELLIPSOID HEIGHT (ORSD): 18,877 FEET, APPLIED GEOID03 TO ESTABLISH ON SITE ORTHOMETRIC HEIGHTS.
 - 4) HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD83.
 - 5) UNITS: US SURVEY FEET.
 - 6) THE UTILITIES SHOWN HAVE BEEN LOCATED FROM EVIDENCE OBSERVED ON THE SURFACE ONLY. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
 - 7) ADDITIONAL TOPOGRAPHY ACQUIRED BY SURVEYOR VIA FIELD OBSERVATIONS BETWEEN JUNE 24 AND JUNE 29, 2005 TO EXPAND SURVEY AREA, AT THE REQUEST OF ENSR.
 - 8) TOP OF WALL AND BOTTOM OF WALL ELEVATIONS WERE RECORDED FROM TOP OF GEOWEB®. AS SUCH, IN-FILL OF GEOWEB® WALL IS APPROXIMATELY 1"-2" HIGHER THAN TOP OF THE WALL ELEVATION.
 - 9) PLACE SECURITY FENCE SIGNS EVENLY SPACED ALONG THE NEW FENCE LINE, 6' FEET ABOVE THE GROUND. USE ONE EACH OF THE FOUR SIGNS SHOWN ON DETAIL 2 ON DRAWING C-3.

FENCING TO BE REMOVED. SEE DRAWING C-1.

NEW CHAIN LINK FENCE (INSTALL PER DETAIL 1 ON DRAWING C-3). SEE NOTE 9.

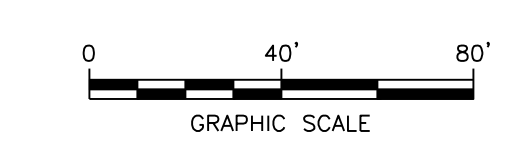
TIE-IN POINT FOR NEW FENCING. TIE NEW 8' HIGH CHAIN LINK FENCE INTO EXISTING FENCE POST CLOSEST TO THIS COORDINATE. REPLACE EXISTING FENCE POST AT THIS LOCATION WITH A CORNER POST AS SHOWN ON DETAIL 1 ON DRAWING C-3.

STATION 0+00
N 625,736
E 331,511

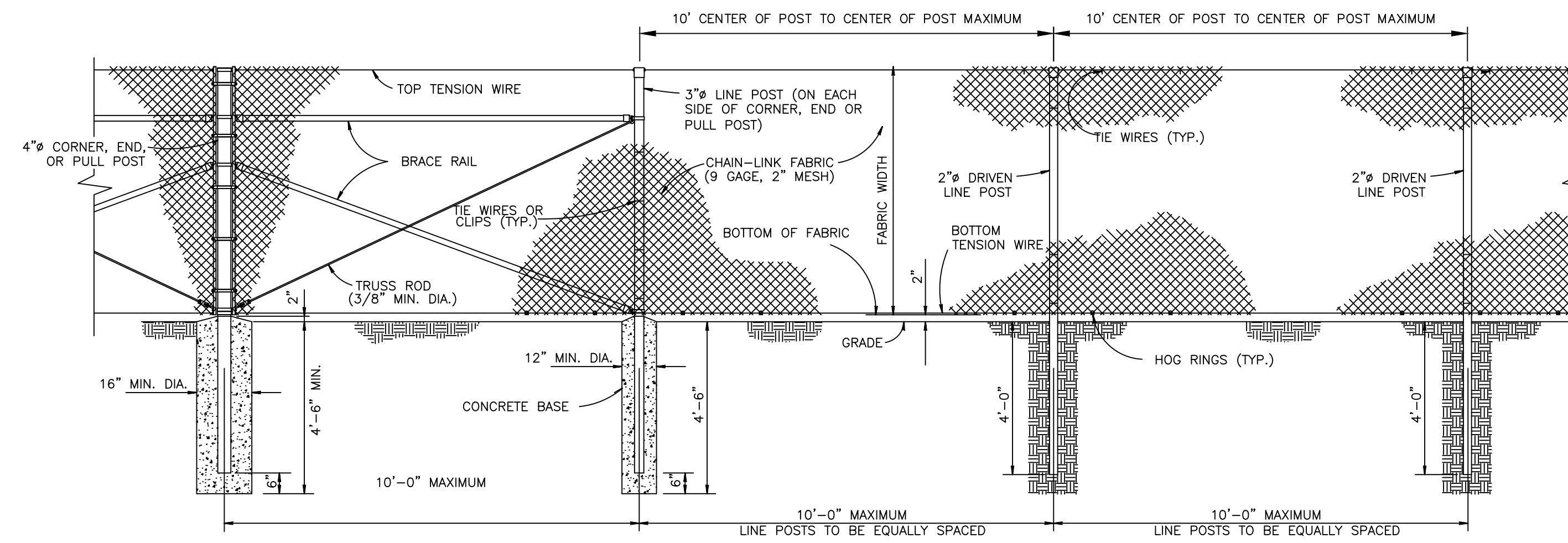
N 625,896
E 331,305

N 625,682
E 331,470

SOURCE:
DRAWING TITLED "FINAL AS-BUILT SURVEY, CROWN VANTAGE LANDFILL SLOPE STABILIZATION MEASURES, LOT 1, BLOCK 17.01, HUNTERDON COUNTY, ALEXANDRIA TOWNSHIP, NEW JERSEY" DRAWING NO. C-1, SCALE: 1"=40', DATED: 10/25/07, BY ENSR CORPORATION.

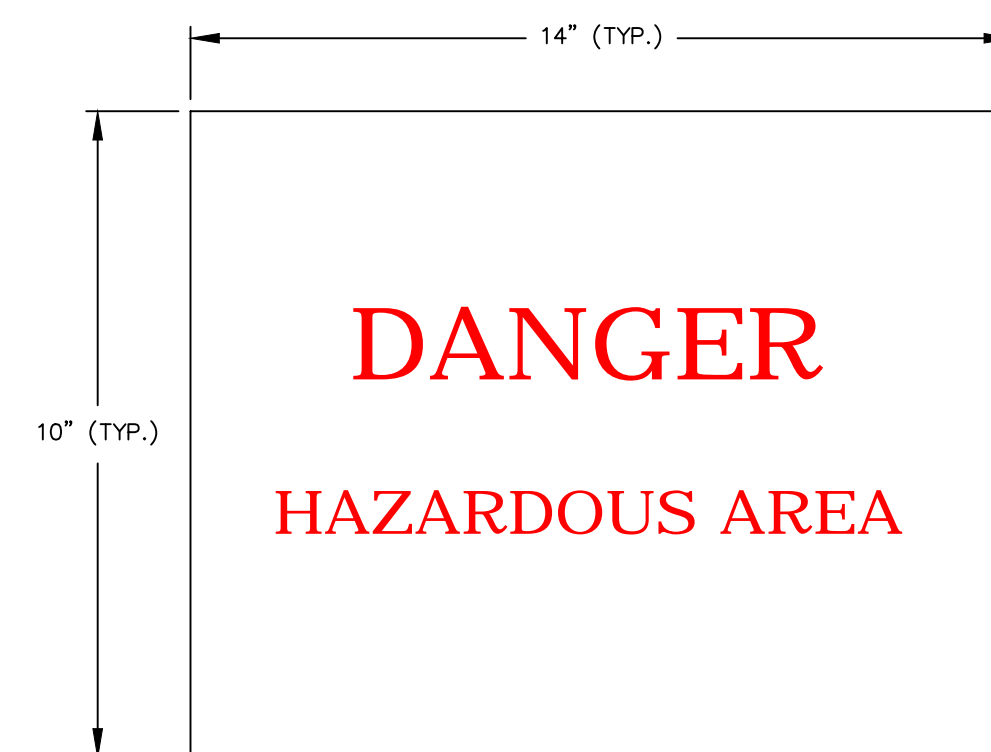


NO.	REVISIONS	DATE	APPROVAL
CROWN VANTAGE LANDFILL ALEXANDRIA TOWNSHIP, NEW JERSEY			
PROPOSED FENCING LAYOUT			
DESIGN:	BAK	11/05/12	 21 Griffin Road North Windsor, CT 06095 (860) 298-9682
DRAWN:	KDH	11/05/12	
CHECKED:			
SCALE:	1"=40'		
PROJECT:	164117-000160-000100		
DRAWING			C-2

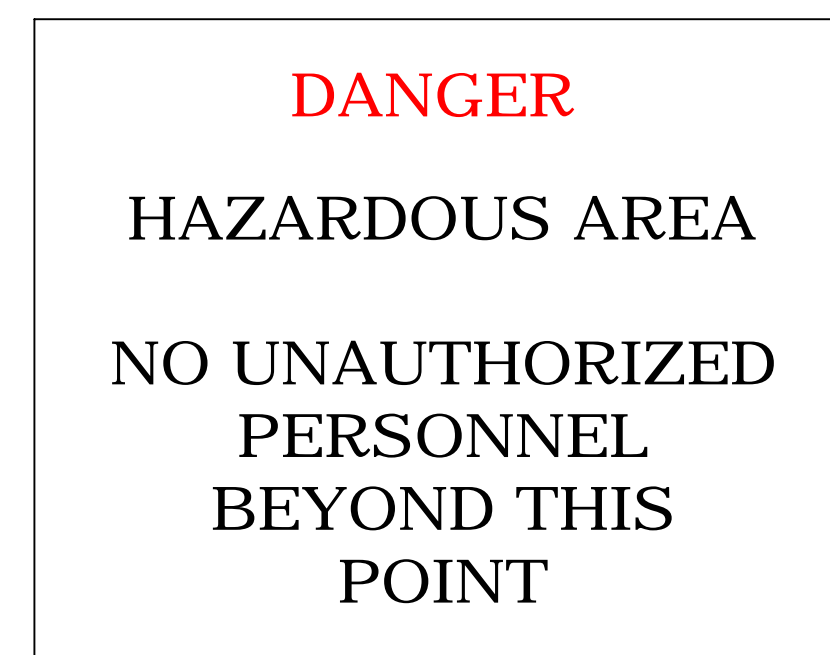


1) 8' TALL CHAIN-LINK SECURITY FENCE DETAIL

NTS



2A



2B



2C



2D

2. SECURITY FENCE SIGNAGE DETAIL

NTS

NOTES:

- SIGNAGE SHALL BE SPACED EVENLY ALONG THE FENCE LINE, 6' ABOVE THE GROUND.
- SIGNS SHALL BE CONSTRUCTED OF 0.055 POLYETHYLENE OR 0.040 ALUMINUM AND PRINTED WITH UV RESISTANT INK. SIGNS SHALL INCLUDE 4 PREPUNCHED HOLES FOR MOUNTING.

SOURCE:
DRAWING TITLED "DETAILS, CROWN VANTAGE LANDFILL SLOPE STABILIZATION MEASURES, ALEXANDRIA TOWNSHIP, NEW JERSEY" DRAWING NO. 7, DATED: 7/27/2006, BY ENSR CORPORATION.

NO.	REVISIONS	DATE	APPROVAL
CROWN VANTAGE LANDFILL ALEXANDRIA TOWNSHIP, NEW JERSEY			
FENCE DETAILS			C-3



DESIGN:	BAK	11/05/12
DRAWN:	KDH	11/05/12
CHECKED:		
SCALE:	NTS	
PROJECT:	164117-000160-000010	
DRAWING:		