September 19, 2008

Tax Parcel #2-065-022.

PREPARED BY AND RETURN TO:
Manko, Gold, Katcher & Fox, LLP
401 City Ave., Suite 500
Bala Cynwyd, PA 19004
Attention: Jonathan H. Spergel, Esquire

GRANTOR: Waterside Bensalem Development, Inc. ("WBDI" or "Grantor")
PROPERTY ADDRESS: 2375 State Street, Bensalem Township, Bucks County, Pennsylvania.

ENVIRONMENTAL COVENANT

This Environmental Covenant is executed pursuant to the Pennsylvania Uniform Environmental Covenants Act, Act No. 68 of 2007, 27 Pa. C.S. §§ 6501 – 6517 ("UECA"). This Environmental Covenant subjects the Property identified in Paragraph 1 to the activity and/or use limitations in this document. As indicated later in this document, this Environmental Covenant has been approved by the Pennsylvania Department of Environmental Protection ("Department").

1. **Property Affected.** The property affected ("Property") by this Environmental Covenant is located in Bensalem Township, Bucks County.

The postal street address of the Property is: 2375 State Road, Bensalem Township, Bucks County, Pennsylvania.
The County Parcel Identification No. of the Property is: TMP# 2-065-022.
The latitude and longitude of the center of the Property affected by this Environmental Covenant is: 40.06942N and 74.941006W.
The Property has been known by the following name(s): Elf-Atochem, Atofina Cornwells Heights Plant, and "Parcel A".

A complete description of the Property is attached to this Environmental Covenant as Exhibit A. A map of the Property is attached to this Environmental Covenant as Exhibit B.

2. **Property Owner / GRANTOR.** The Redevelopment Authority of Bucks County ("RDA" or "Owner") is the current fee simple owner of the Property, although the RDA only holds title to the Property for the purposes of facilitating the use of certain public funds in connection with the remediation and redevelopment of the Property. Bensalem Redevelopment, L.P. ("BRLP") possesses an equitable interest in the Property pursuant to an option agreement ("Option Agreement") with the RDA to purchase the Property. Pursuant to the Option Agreement, BRLP is permitted to designate a third party to take fee title from the RDA. BRLP has designated WBDI to take fee title from

the RDA. Therefore, WBDI is the "Grantor" for purposes of this Environmental Covenant. The mailing address(es) of the Owner is: One North Wilson Avenue, Suite 1, Bristol, PA 19007. The mailing address of WBDI is: 2310 Terwood Drive, Huntingdon Valley, PA 19006.

3. **Holder(s) / GRANTEE.** Each of the following is a "holder," as that term is defined in 27 Pa. C.S. § 6501, of this Environmental Covenant:

Waterside Bensalem Development, Inc.
2310 Terwood Drive, Huntingdon Valley, PA 19006

Bensalem Redevelopment, L.P.
2310 Terwood Drive, Huntingdon Valley, PA 19006

4. **Description of Contamination & Remedy.**

Extensive investigations of soil and groundwater have previously been conducted at the Property, both by prior owners of the Property as well as by BRLP. A detailed summary of environmental investigatory activities that have been performed at the Property is contained in the October 21, 2005 Remedial Action Work Plan ("RAWP"), November 23, 2004 Final Characterization Report ("FC"), and May 13 2004 Remedial Investigation/Risk Assessment Report ("RI"). These investigations identified the presence of various constituents in soil and groundwater in concentrations above the Pennsylvania Land Recycling and Environmental Remediation Standards Act, 35 P.S. §6026.101 et seq.("Act 2") residential statewide health standards ("SHSs"), including in certain soils: TCE , PCE, arsenic, lead, PCBs; and in groundwater: TCE, PCE, vinyl chloride, benzene, toluene, ethylbenzene, xylene, and certain metals. In addition, two former wastewater lagoons, which were backfilled in 1972, were also located on the Property, and investigatory activities in these former lagoons identified the presence of waste materials within the fill used to backfill the lagoons. A detailed summary of contaminants identified in soil, groundwater and the former lagoons at the Property can be found in the RAWP, FC and RI Reports listed above.

BRLP conducted extensive remediation, through excavation and off-site disposal, of soils at the Property with concentrations of contaminants in excess of the Act 2 residential SHSs. In addition, BRLP completely excavated and disposed of (offsite) any waste materials previously used to backfill the former lagoons at the Property. As a result, no identified contaminants remain in soils at the Property in concentrations above Act 2 residential SHSs. BRLP has also conducted extensive groundwater monitoring of the Property, which has identified primarily concentrations of PCE, and its breakdown products, and to a lesser degree metals that remain in groundwater at the Property in excess of the Act 2 residential SHSs. Although these constituents remain present in groundwater in concentrations above the Act 2 residential SHS, as described below, Grantor has demonstrated attainment, through the use of engineering and institutional controls, with the residential Site Specific Standard ("SSS") for these constituents in groundwater, indicating that future residential occupants of the Property will not be

exposed at all to these constituents in groundwater at the Property. Specifically, because groundwater is not utilized at the Property, and cannot be utilized in the future because of municipal ordinance, groundwater at the Property does not represent a complete exposure pathway via direct contact or ingestion, and the migration of impacted groundwater to surface waters has also been demonstrated to not negatively impact surface water quality of the receiving Delaware River. In addition, to ensure that potential vapor intrusion of impacted groundwater into future Property structures will not represent a complete exposure pathway to future building occupants, future structures at the Property will be built with vapor barriers and slab-on-grade foundations without basements (regardless of results received from the planned long-term vapor sampling).

Grantor has already submitted to the Department an Act 2 Final Report, prepared by Penn Environmental and Remediation dated September 4, 2008 ("Final Report"), demonstrating attainment with the Act 2 residential SHS for various hazardous substances previously identified in soil and groundwater at the Site, and the residential Site Specific Standard ("SSS") for constituents previously identified in groundwater at the Site. The Final Report has been approved by the Department, acknowledging that BRLP has demonstrated attainment with the residential SHS for various hazardous substances previously identified in soil and groundwater at the Site, and the residential SSS for constituents in groundwater at the Site. In addition, the U.S. Environmental Protection Agency ("EPA") also concurred with the Department's approval of the Final Report. In accordance with the Final Report, BRLP and/or WBDI shall comply with the terms of the Post-Remediation Care Plan contained in the Final Report. The Act 2 Final Report and other related reports, which describe the nature and extent of hazardous substances that were previously identified and remediated at the Site, as well as the nature and extent of constituents that remain in groundwater at the Site, are on file with and may be reviewed at PADEP's Southeast Regional Office, 2 East Main Street, Norristown, Pennsylvania 19401, Phone Number (484) 250-5900.

5. **Activity & Use Limitations.** The Property is subject to the following activity and use limitations, which the Owner and each subsequent owner of the Property shall abide by:

a. Vapor Barriers/Slab-On-Grade Construction. As part of the eventual development of the Property, WBDI will construct slab-on-grade buildings without basements and install vapor barriers as an engineering control to eliminate potential vapor intrusion from ground water into indoor air for buildings located at the Property, with the specific engineering plans for the vapor barriers to first be submitted to and approved by EPA prior to construction.

b. Inspections. In order to ensure the ongoing use, integrity and effectiveness of any engineering and institutional controls used at the Property, Owner (or the then-current owner(s) of the Property) through a third-party agent (with work completed under the certification of a Professional Geologist (P.G.), a Professional Engineer (P.E.), or equivalent), shall perform annual inspections of the Property and shall prepare an annual inspection report documenting the results of such inspection. The

inspection shall include the following activities, all of which shall be documented in the written inspection report.

(i) Inspections of the visible portions of the building foundations and vapor barrier systems at the Property to identify the continued presence of such barriers, as well as any significant disturbance or damage to the barriers. The third party shall also note any change in any building footprints at the Property from prior inspections, and if any additional building footprints have been identified, request and review copies of as-built plans demonstrating that any necessary vapor barriers were installed at the Property.

(ii) A file review of the Bensalem Township municipal records for the Property to determine whether any construction permits relating to the Property were obtained for the prior year which could have related to construction activities in any way affecting existing vapor barriers at the Property, and if so, the inspector shall determine through interviews and other means whether such construction activities were performed, and if so, whether the construction activities impacted any vapor barriers utilized at the Property.

(iii) Confirmation that groundwater is not utilized at the Property, and that only water from the local public water system is utilized at the Property. As part of this inspection, the inspector will verify that Bensalem Township ordinance (Chapter 192, Article II, Section 192-6) requiring connection to the public water supply lines remains valid and in force. The inspector shall also communicate with the Bucks County Health Department (through file review or verbal conversations) to verify that no new well construction permits were issued for the Property or the immediate vicinity of the Property.

A written inspection report (the "Annual Inspection Report") shall be prepared annually, documenting the inspection activities identified above. In addition, the Annual Inspection Report shall include the results of any soil gas monitoring and groundwater monitoring performed at the Property in the previous year. The Annual Inspection Report shall also include a description of any maintenance or repair activities taken in the previous year performed at the Property to cure any potential violations of the activity and use limitations at the Property identified above.

(c) Maintenance and Repairs. Owner (or the then current owner(s) of the Property) shall expeditiously inspect any alleged violations of the activity and use limitations described in this Section 5, and expeditiously remedy any violations of any activity and use limitations described herein. A written report of any alleged violations, and all activities taken to cure any violations, shall be prepared, and shall be provided to the person performing the annual inspection described in Section 5(b) above, and shall be attached as an exhibit to the next Annual Inspection Report to be prepared in accordance with Section 5(b) of this Environmental Covenant.

Copies of the annual inspections shall be provided to the Holders of the Environmental Covenant, and the then owner of the real property and/or common elements of the Site shall be required to maintain the written records of these annual inspections and any maintenance/repairs. A third party shall be responsible for performing annual inspections of the Site to assure compliance.

6. **Notice of Limitations in Future Conveyances.** Each instrument hereafter conveying any interest in the real property subject to this Environmental Covenant shall contain a notice of the activity and use limitations set forth in this Environmental Covenant and shall provide the recorded location of this Environmental Covenant.

7. **Compliance Reporting.** By the end of every January following the effective date of this Environmental Covenant, the Owner or the then-current owner(s) shall submit to the Department and any Holder listed in Paragraph 3, a copy of the Annual Inspection Report. The Owner or the then-current owner(s) shall submit, to the Department and any Holder listed in Paragraph 3, written documentation following transfer of the Property, concerning proposed changes in use of the Property, filing of applications for building permits for the Property or proposals for any site work affecting the contamination on the Property subject to this Environmental Covenant.

8. **Access by the Department.** In addition to any rights already possessed by the Department, this Environmental Covenant grants to the Department a right of access of the Property in connection with implementation or enforcement of this Environmental Covenant.

9. **Recordation & Proof & Notification.** Within 30 days after the date of the Department's approval, the Owner(s) shall file this Environmental Covenant with the Recorder of Deeds for Bucks County, and send a file-stamped copy of this Environmental Covenant to the Department within 60 days of recordation. Within that time period, the Owner(s) also shall send a file-stamped copy to each of the following: Bensalem Township and Bucks County; any Holder identified in this Environmental Covenant; each person holding a recorded interest in the Property; and each person then in possession of the Property.

10. **Termination or Modification.** This Environmental Covenant may only be terminated or modified in accordance with Section 9 of UECA, 27 Pa. C.S. § 6509. Consistent with UECA Section 9(a)(1), Owner or any subsequent owner or other party may, at any time, perform additional remedial work at the Property to allow for removal or modification of any or all of the foregoing activity and use limitations. Should such remedial work eliminate the need for one or more of the foregoing activity and use limitations to attain one or a combination of Act 2 remediation standards at the Property, Owner or any subsequent owner, with the prior written approval of the Department, may record with the Recorder of Deeds, as appropriate, either (i) an amendment to this Environmental Covenant removing or modifying the relevant activity and use limitations(s), or (ii) a termination of this Environmental Covenant.

11. **Department's address.** Communications with the Department regarding this Environmental Covenant shall be sent to:

Pennsylvania Department of Environmental Protection
Southeast Regional Office
2 East Main Street
Norristown, PA 19401
Attn: Environmental Cleanup Manager

12. **Act 2 §304(m) Acknowledgment.** Pursuant to Act 2 Section 304(m), 35 P.S. § 6026.304(m), and to the extent required for future conveyances of the Property, Exhibits C and D to this Environmental Covenant contain plans and tables depicting the surface area size, location, and description of the regulated substances for which Site Specific Standards have been attained.

ACKNOWLEDGMENTS by Owner(s) and any Holder(s), in the following form:

Redevelopment Authority of the County of Bucks

Date: By: _____
Name: Robert White
Title: Executive Director

Waterside Bensalem Development, Inc.

Date: By: _____
Name: Stephen P. McKenna
Title: President

Bensalem Redevelopment, L.P.
By: Bensalem Redevelopment, LLC
Its General Partner
By: Riverside E&D, LLC
Its Managing Member

Date: By: _____
Name: Joe Casey
Title: Dir. Land Development

[REPEAT AS NECESSARY]

APPROVED, by Commonwealth of Pennsylvania,
Department of Environmental Protection

Date: By: _____
Name: _____
Title: _____

COMMONWEALTH OF PENNSYLVANIA)
)
COUNTY OF Bucks) SS:

On this 22nd day of September, 2008, before me, the undersigned officer, personally appeared Robert White who acknowledged himself to be the Executive Director of the Redevelopment Authority of the County of Bucks, and the person whose name is subscribed to this Environmental Covenant on behalf of the Redevelopment Authority of the County of Bucks, and acknowledged that he executed same for the purposes therein contained.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Mildred I. Wagner, Notary Public
Bristol Twp., Bucks County
My Commission Expires Sept. 24, 2010

In witness whereof, I hereunto set my hand and official seal.

Mildred I Wagner
Notary Public

COMMONWEALTH OF PENNSYLVANIA)
)
COUNTY OF Montgomery) SS:

On this 19th day of September, 2008, before me, the undersigned officer, personally appeared Stephen P. McKenna who acknowledged himself to be the President of Waterside Bensalem Development, Inc., and the person whose name is subscribed to this Environmental Covenant on behalf of Waterside Bensalem Development, Inc., and acknowledged that he executed same for the purposes therein contained.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
KAREN GERDY, Notary Public
Lower Moreland Twp., Montgomery County
My Commission Expires March 28, 2012

In witness whereof, I hereunto set my hand and official seal.

Karen Gerdy
Notary Public

COMMONWEALTH OF PENNSYLVANIA)
)
COUNTY OF Montgomery) SS:

On this 19th day of September, 2008, before me, the undersigned officer, personally appeared Joseph Casey who acknowledged himself to be the Environmental Manager of Riverside E&D, LLC, which is the Managing Member of Bensalem Redevelopment, LLC, which is the General Partner of Bensalem Redevelopment, L.P., and the person whose name is subscribed to this Environmental Covenant on behalf of Bensalem Redevelopment, L.P., and acknowledged that he executed same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Karen Gerdy
Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
KAREN GERDY, Notary Public
Lower Moreland Twp., Montgomery County
My Commission Expires March 28, 2012

Property Owner: Waterside Bensalem Development Inc.
Property Address: 2375 State Street
Bensalem Township, Bucks County

Date:

APPROVED, by Commonwealth of Pennsylvania,
Department of Environmental Protection
By: _____
Name: Stephan Sinding
Title: Environmental Cleanup Program Manager
PADEP - SERO

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF BUCKS

On this 26 day of September, 2008, before me, the undersigned officer, personally appeared Stephan Sinding who acknowledged himself to be the person whose name is subscribed to this Environmental Covenant, and acknowledged that he executed same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

_____
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Vanetta Bouknight, Notary Public
Norristown Boro, Montgomery County
My Commission Expires Dec. 1, 2009
Member, Pennsylvania Association of Notaries

EXHIBIT A

Legal Description - 2375 State Rd.

ALL THAT CERTAIN tract or parcel of land with the buildings and improvements thereon erected, situate at Cornwells, in the Township of Bensalem, County of Bucks and State of Pennsylvania, bounded and described according to a plan prepared by Ezra Golub & Associates, Registered Professional Engineers and Registered Land Surveyors of Levittown, Pennsylvania dated December 22, 1999 as follows, to wit:

BEGINNING in the middle line of the State Road (fifty feet wide) and in line of land now or late of Schutte and Koerting; thence along the middle line of the said State Road North sixty-five degrees twenty-four minutes East one thousand and eighty-nine feet and forty-five one-hundredth of a foot to the line of land now or late of the Badenhausen Company; thence by the same crossing over a stone set at the distance of fifty-three feet Northward from the Northwest side of Delaware River South twenty-six degrees twenty-six minutes East one thousand and twenty-three feet and fifty-one one-hundredths of a foot to the Northwest side of the said Delaware River; thence by the same South fifty-nine degrees twenty minutes West five hundred and twenty-seven feet and fifty-nine one-hundredths of a foot to an angle; thence by the same South seventy-five degrees forty-five minutes West five hundred and six feet and ninety-four one-hundredths of a foot to a corner of land of the said Schutte and Koerting; and thence by the same North thirty degrees twenty minutes West nine hundred and ninety-two feet and seventy-four one hundredths of a foot to the place of beginning.

CONTAINING twenty-five acres and two hunched and seventy-one one-thousandths of an acre.

BEING Parcel No. 02-065-022.

BEING the same premises which Bensalem Redevelopment, L.P., a PA Limited Partnership by Deed dated September 27, 2005 and recorded September 29, 2005 in Bucks County in Land Record Book 4651 page 2270 granted and conveyed unto Redevelopment Authority of the County of Bucks, in fee.

FOR EXHIBIT SEE

PLAN BOOK 366 P. 63

EXHIBIT B

FOR EXHIBIT SEE

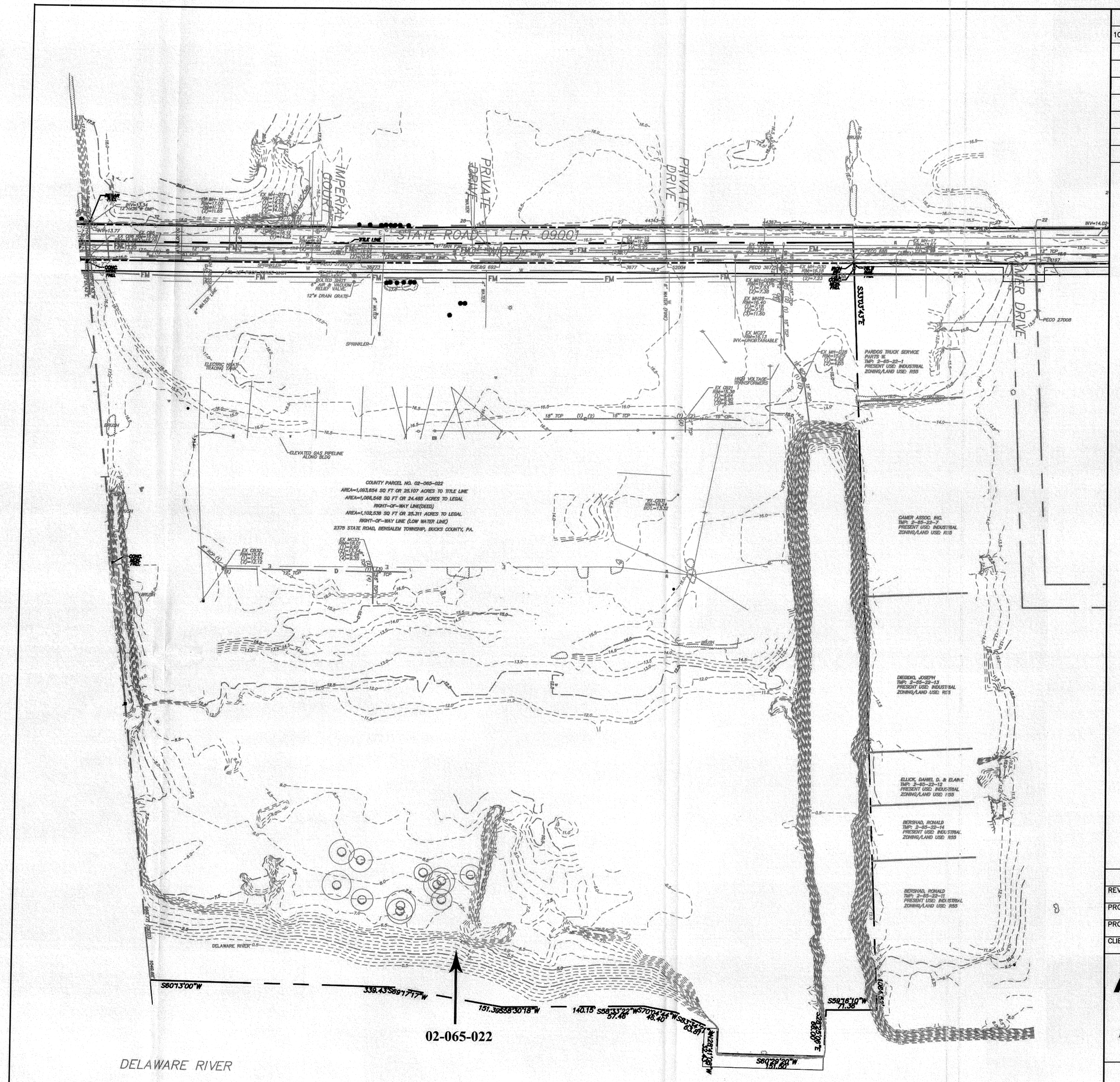
PLAN BOOK 366 P. 65

EXHIBIT C

FOR EXHIBIT SEE

PLAN BOOK 366 P. 71

EXHIBIT D



DATE:	REVISION:
10/18/2007	PER TOWNSHIP COMMENTS

SITE PLAN NOTES
- Existing boundary and topographic survey obtained from Survey performed by Langan Engineering and Environmental Services, Inc.
- Wetlands and waters of U.S. delineation performed by Del Val Soil & Environmental Consultants, Inc.
- Zoning information obtained from Zoning Ordinance 06-04 of Bensalem Township last updated March 15, 2006.
- The zoning district of the subject site is MXD "Mixed Use Waterfront Development". Residential as well as non-residential uses are permitted as "by-right" uses. Refer to table 2 for proposed uses.
- The proposed development will be serviced by public water and public sewer. Water service will be provided by Aqua PA and Sanitary sewer service will be provided by Bucks County Water and Sewer Authority.

SIGNATURE	DATE
REVIEW ENGINEER:	
PROJECT ENGINEER:	
PROJECT MANAGER:	
CLIENT:	

ADVANCED GeoServices
Engineering for the Environment. Planning for People.™
1055 ANDREW DRIVE, SUITE A
WEST CHESTER, PENNSYLVANIA 19380

BENSALEM REDEVELOPMENT LP
2310 TERWOOD DRIVE
HUNTINGDON VALLEY, PA 19006

WATERSIDE
TOWNSHIP OF BENSALEM
BUCKS COUNTY, PENNSYLVANIA

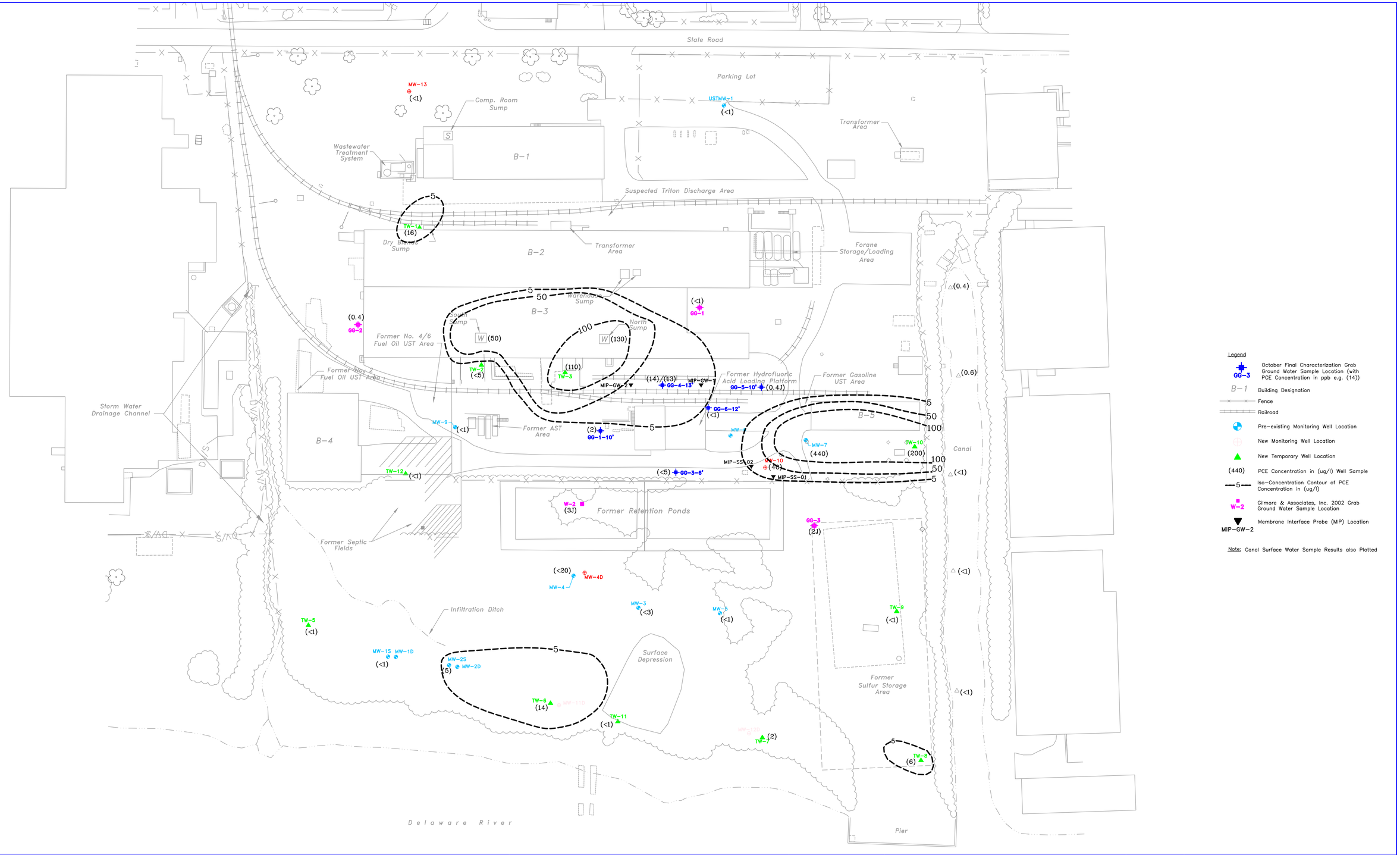
BOUNDARY AND TOPOGRAPHIC PLAN

05.01

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
DANIEL THOMAS WRIGHT
ENGINEER
PE-044806-E

Scale:	1" = 80'
Originated By:	CRR
Drawn By:	CRR
Checked By:	DTW
Project Mgr.:	DTW
Project No.:	20071889
Sheet No.:	1 OF 1
Issued:	11/17/2006

EXHIBIT B



Legend

- GG-3 — October Final Characterization Grab Ground Water Sample Location (with PCE Concentration in ppb e.g. (14))
- B-1 — Building Designation
- Fence
- Railroad
- Pre-existing Monitoring Well Location
- New Monitoring Well Location
- New Temporary Well Location
- (440) — PCE Concentration in (ug/l) Well Sample
- 5 — Iso-Concentration Contour of PCE Concentration in (ug/l)
- W-2 — Gilmore & Associates, Inc. 2002 Grab Ground Water Sample Location
- MIP-GW-2 — Membrane Interface Probe (MIP) Location

Note: Canal Surface Water Sample Results also Plotted

Source: Base map from Environmental Resources Management "Act 2 Plus Remedial Investigation/Risk Assessment Work Plan Former Elf Atochem North America Inc, Facility Cornwells Heights, Pennsylvania" dated 10/1/01 and Electronic file dated 1/24/03

NOTES:

NORTH

0 60 120 FRACTIONAL

0 60 120 DECIMAL

GRAPHIC SCALE

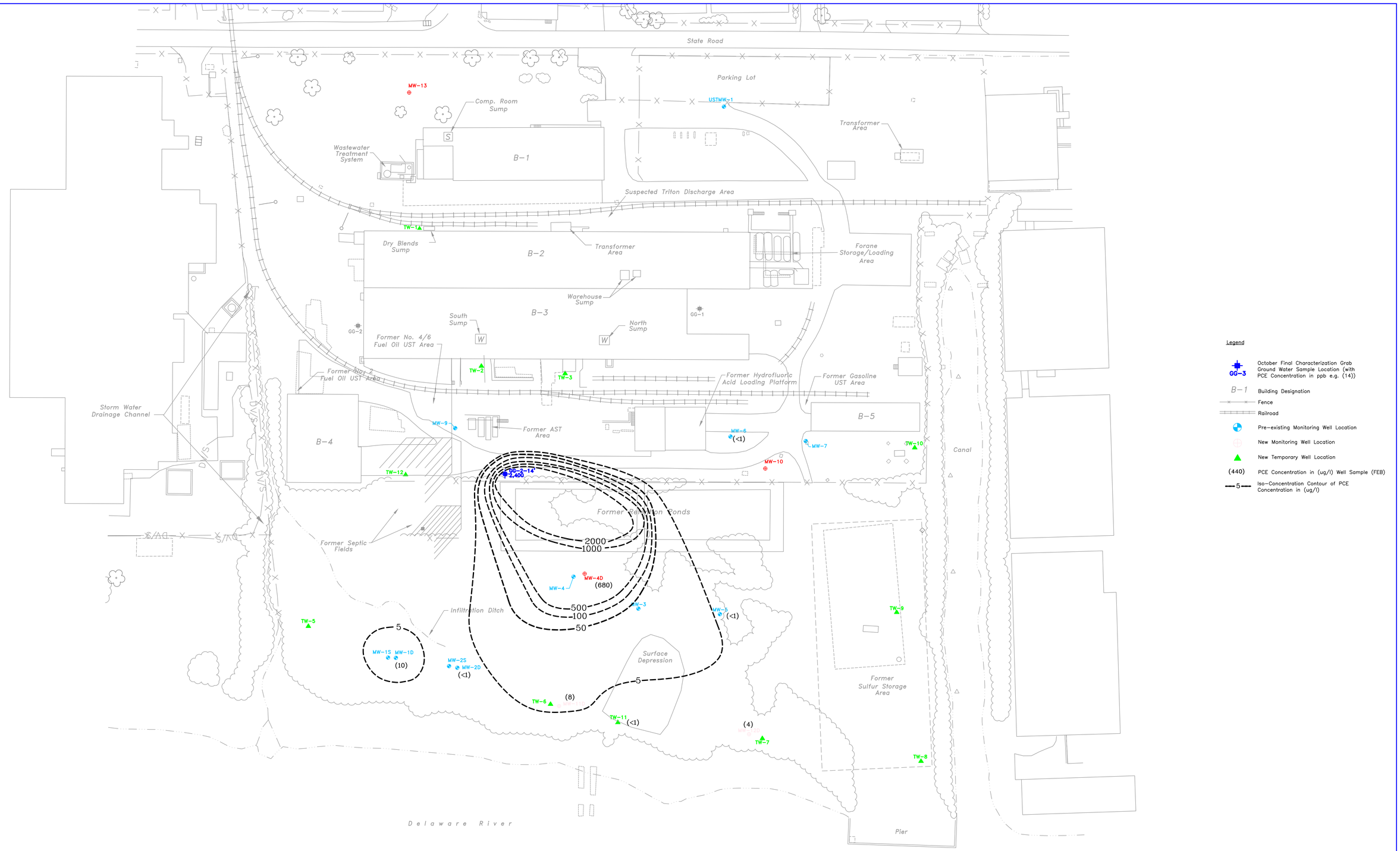
Penn E&R
Environmental & Remediation, Inc.
2755 BERGEY ROAD, HATFIELD, PENNSYLVANIA, 19440 - 215.997.9000 Fax 215.822.8575

PROJ NO.:HA4805
SCALE: 1"=60±
BY: JMR
REVIEWED

FIGURE 5
OVERBURDEN AQUIFER PCE CONCENTRATIONS
IN GROUND WATER
FEBRUARY/OCTOBER 2004
2375 STATE ROAD
BENSALEM TOWNSHIP, PA

DATE 08-NOV-04

PENN E&R DRAWING NO. HA4805-017
FIGURE NO.
REV.



Legend

- GG-3 — October Final Characterization Grab Ground Water Sample Location (with PCE Concentration in ppb e.g. (14))
- B-1 — Building Designation
- Fence
- Railroad
- Pre-existing Monitoring Well Location
- New Monitoring Well Location
- New Temporary Well Location
- (440) — PCE Concentration in (ug/l) Well Sample (FEB)
- 5 — Iso-Concentration Contour of PCE Concentration in (ug/l)

Source: Base map from Environmental Resources Management "Act 2 Plus Remedial Investigation/Risk Assessment Work Plan Former Elf Atochem North America Inc, Facility Cornwells Heights, Pennsylvania" dated 10/1/01 and Electronic file dated 1/24/03

NOTES:

NORTH

0 60 120 FRACTIONAL

0 60 120 DECIMAL

GRAPHIC SCALE

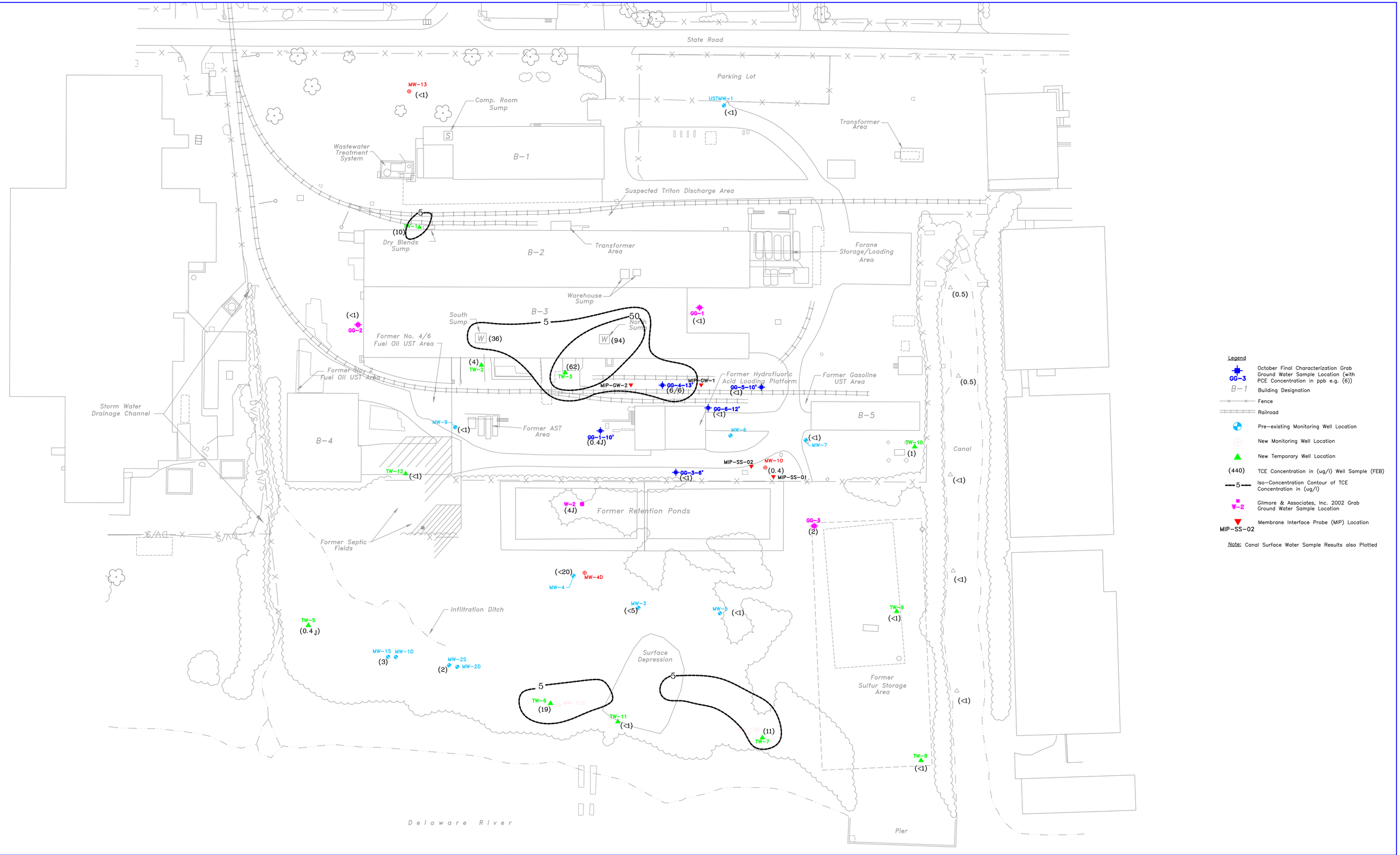
Penn E&R
Environmental & Remediation, Inc.
2755 BERGEY ROAD, HATFIELD, PENNSYLVANIA, 19440 - 215.997.9000 Fax 215.822.8575

PROJ NO.: HA4805
SCALE: 1"=60±
BY: JMR
REVIEWED

FIGURE 6
SAPROLITE AQUIFER PCE CONCENTRATIONS
IN GROUND WATER
FEBRUARY/OCTOBER 2004
2375 STATE ROAD
BENSALEM TOWNSHIP, PA

DATE 08-NOV-04

PENN E&R DRAWING NO. HA4805-018
FIGURE NO.
REV.



Source: Base map from Environmental Resources Management "Act 2 Plus Remedial Investigation/Risk Assessment Work Plan Former Elf Atochem North America Inc, Facility Cornwells Heights, Pennsylvania" dated 10/1/01 and Electronic file dated 1/24/03

NOTES:

NORTH

0 60 120 FRACTIONAL

0 60 120 DECIMAL

GRAPHIC SCALE

Penn E&R
Environmental & Remediation, Inc.
2755 BERGEY ROAD, HATFIELD, PENNSYLVANIA, 19440 - 215.997.9000 Fax 215.822.8575

PROJ NO.:HA4805
SCALE: 1"=60±
BY: JMR
REVIEWED

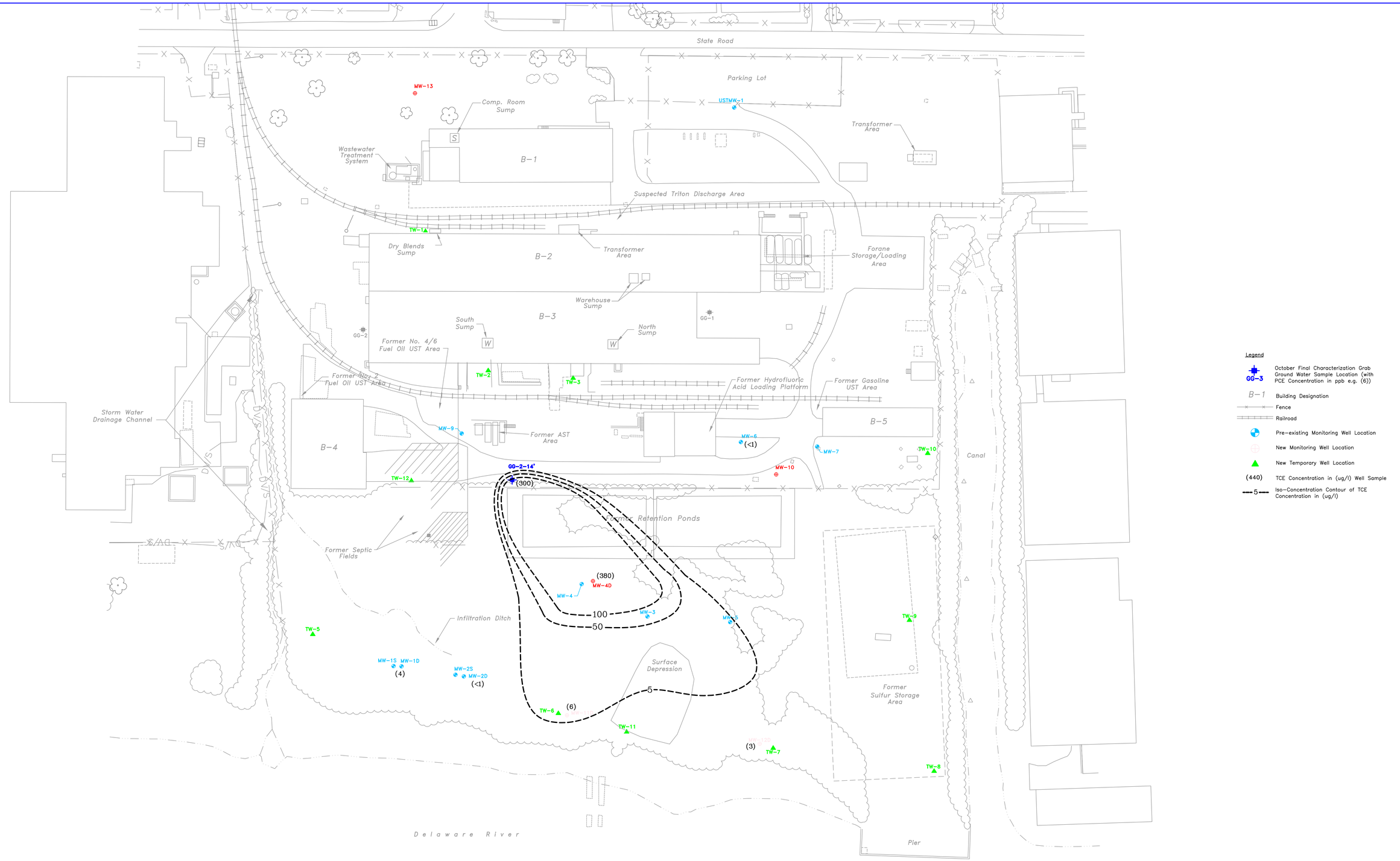
FIGURE 7
OVERBURDEN AQUIFER TCE CONCENTRATIONS
IN GROUND WATER
FEBRUARY/OCTOBER 2004
2375 STATE ROAD
BENSALEM TOWNSHIP, PA

DATE 08-NOV-04

PENN E&R DRAWING NO. HA4805-019

FIGURE NO.

REV.



Legend

- GG-3 — October Final Characterization Grab Ground Water Sample Location (with PCE Concentration in ppb e.g. (6))
- B-1 — Building Designation
- Fence
- Railroad
- Pre-existing Monitoring Well Location
- New Monitoring Well Location
- New Temporary Well Location
- (440) — TCE Concentration in (ug/l) Well Sample
- 5 — Iso-Concentration Contour of TCE Concentration in (ug/l)

Source: Base map from Environmental Resources Management "Act 2 Plus Remedial Investigation/Risk Assessment Work Plan Former Elf Atochem North America Inc, Facility Cornwells Heights, Pennsylvania" dated 10/1/01 and Electronic file dated 1/24/03

NOTES:

NORTH

0 60 120 FRACTIONAL

0 60 120 DECIMAL

GRAPHIC SCALE

Penn E&R
Environmental & Remediation, Inc.
2755 BERGEY ROAD, HATFIELD, PENNSYLVANIA, 19440 - 215.997.9000 Fax 215.822.8575

PROJ NO.: HA4805
SCALE: 1"=60±
BY: JMR
REVIEWED

FIGURE 8
SAPROLITE AQUIFER TCE CONCENTRATIONS
IN GROUND WATER
FEBRUARY/OCTOBER 2004
2375 STATE ROAD
BENSALEM TOWNSHIP, PA

DATE 11-May-04

PENN E&R DRAWING NO. HA4805-020
FIGURE NO.
REV.

TABLE 9

SUMMARY OF ANALYTICIAL RESULTS FOR GRAB GROUND WATER SAMPLES COLLECTED IN OCTOBER 2004

FINAL CHARACTERIZATION EVENT

ANALYTICAL PARAMETERS (1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS (2)								EPA RBC TAP WATER	PADEP RUA MSC (3)	PADEP RNUA MSC (3)
	GG-1-10'	GG-2-14'	GG-3-6'	GG-4-13'	GG-5-10'	GG-6-12'	GG-7-13' *	TRIP			
Volatile Organic Compounds:											
Acetone	8 B	<120	<6	7 B	22 B	7 B	5 J B	5 J	5,500	3,700	37,000
Benzene	<1	<20	<1	<1	<1	<1	<1	<1	0.34	5	500
Bromomethane	<1	<20	<1	<1	<1	<1	<1	<1	8.5	10	1,000
Chlorobenzene	<1	<20	<1	0.4 J	<1	<1	0.4 J	<1	110	100	10,000
Chloroform	<1	<20	0.4 J	<1	2	<1	<1	<1	0.15	100	1,000
Dichloroethane, 1,1-	<1	8 J	<1	0.8 J	<1	<1	0.8 J	<1	800	27	270
Dichloroethene, 1,1-	<1	<20	<1	<1	<1	<1	<1	<1	350	7	70
trans-1,2-Dichloroethene	<1	<20	<1	<1	<1	<1	0.4 J	<1	120	100	1,000
cis-1,2-Dichloroethene	2	1300 D	0.7 J	53 D	<1	<1	77 D	<1	61	70	700
Dichloromethane, (Methylene Chloride)	<1	<20	<1	<1	<1	<1	<1	2	4.1	5	500
Dichloropropane, 1,2-	<1	<20	<1	<1	<1	<1	<1	<1	0.16	5	50
Ethylbenzene	<1	<20	<1	<1	<1	<1	<1	<1	1,300	700	70,000
Methyl Chloride (Chloromethane)	<1	<20	<1	<1	<1	<1	<1	<1	190	3	300
Methyl Ethyl Ketone (2-Butanone)	<6	<120 R	<6	<6	<6	<6	<6	<6	7,000	2,800	280,000
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	<6	<120	<6	<6	<6	<6	<6	<6	6,300	190	19,000
Methyl-t-butyl Ether	<2	<40	<2	<2	<2	<2	<2	<2	2.6	20	20
Tetrachloroethene (PCE)	2	2400 D	<1	14	0.4 J	<1	13	<1	0.10	5	50
Trichloroethene (TCE)	0.4 J	300	<1	6	<1	<1	6	<1	0.026	5	50
Vinyl Chloride	0.5 J	420	<1	14	<1	<1	14	<1	0.015	2	20
Xylenes-Total	<2	<40	<2	<2	<2	<2	<2	<2	210	10,000	180,000

Notes:

(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter.
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium Specific Concentrations (November 2001).
EPA - Environmental Protection Agency
RBC - Risk Based Concentration (EPA Region III Oct. 8, 2004)
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
Underline - Compound was detected above its EPA RBC
Bold - Compound was detected above its PADEP MSC
NA - Not analyzed
ND - No analytes within this compound group were detected above their respective laboratory detection limits.
NSA - No standard available
J - Estimated concentration below laboratory reporting limit
B - Analyte also present in the method blank
D - Result obtained from a different dilution than the other analytes.
R - Rejected value. Result may not be reliable.
* - Duplicate of GG-4-13'

TABLE 10

SUMMARY OF ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED FROM THE PERMANENT ON-SITE MONITORING WELLS SDG 7 MAY 2004

ANALYTICAL PARAMETERS (1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS (2)										EPA RBC TAP WATER	PADEP RUA MSC (3)	PADEP RNUA MSC (3)	PADEP SMCL
	MW-1D	MW-1S	MW-2D	MW-2S	MW-3	MW-4	MW-4D	MW-5	MW-6	MW-7				
Volatile Organic Compounds:														
Benzene	<1	<1	<1	<1	8	6 J	<20	<1	<1	<5	0.34	5	500	NSA
Carbon Disulfide	<1	<1	<1	<1	<5	<10	<20	0.8 J	<1	<5	1,000	1,900	1,900	NSA
Chlorobenzene	<1	<1	<1	<1	<5	<10	<20	<1	0.5 J	<5	110	100	10,000	NSA
Dichloroethane, 1,1-	6	4	<1	2	2 J	<10	<20	<1	<1	<5	800	27	270	NSA
Dichloroethylene, 1,1-	4	2	<1	1	<5	<10	14 J	<1	<1	<5	350	7	70	NSA
Dichloroethylene, trans-1,2-	<1	0.5 J	<1	<1	<5	7 J	10 J	<1	<1	<5	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	21	54E	<1	4	5 J	500	1,900 E	<1	<1	<5	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<1	<1	<1	<1	<5	<10	<20	<1	<1	<5	4.1	5	500	NSA
Dichloropropane, 1,2-	<1	<1	<1	<1	<5	<10	<20	<1	<1	<5	0.16	5	50	NSA
Methyl tert-Butyl Ether (MTBE)	<2	<2	<2	<2	<10	<20	<40	<2	<2	<10	2.60	20	20	NSA
Tetrachloroethylene (PCE)	10	7	0.6 J	2	<5	23	620	<1	<1	470 E	0.10	5	50	NSA
Trichloroethylene (TCE)	4	3	<1	0.7 J	<5	71	330	<1	<1	4 J	0.026	5	50	NSA
Vinyl Chloride	1	1	<1	<1	2 J	410	1,000	<1	<1	<5	0.015	2	20	NSA
Semivolatile Organic Compounds:														
Benzoic acid	<19	<19	<19	<19	<19	<19	<19	<20	<19	<19	150,000	150,000	150,000	NSA
Bis-(2-Ethylhexyl)phthalate	<10	<10	<10	<10	<10	2 J	<10	<10	<9	3 J	4.8	6	290	NSA
Cresol,p- (Methylphenol, 4-)	<10	<10	<10	<10	<10	<9	<10	<10	<9	<9 R	180	180	510	NSA
Dichlorobenzene,1,2-	<10	<10	<10	<10	160 D	6 J	2 J	<10	<9	<9	270	600	60,000	NSA
Dichlorobenzene,1,4-(P-)	<10	<10	<10	<10	20	<9 L	<10 L	<10	<9	<9 L	0.47	75	7,500	NSA
Naphthalene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	6.5	100	30,000	NSA
Inorganic Compounds:														
Aluminum	<200	790	<200	3,200	6,200	880	3,000	2,300	13,000	3,800	37,000	NSA	NSA	200
Antimony	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	15	6	6,000	NSA
Arsenic	<8	<8	<8	<8	12	<8	<8	8.1	<8	<8	0.045	50	50,000	NSA
Barium	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	5	<2	22	<2	<2	<2	73	4	4,000	NSA
Cadmium	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	18	5	5,000	NSA
Calcium	28,000	17,000	19,000	10,000	7,500	22,000	55,000	1,700	5,600	62,000	NSA	NSA	NSA	NSA
Chromium (5)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	55,000	100	100,000	NSA
Cobalt	<10	19	<10	13	<10	190	66	<10	10	<10	730	730	730,000	NSA
Copper	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,500	1,000	1,000,000	NSA
Iron	28,000	540	1,800	270	9,100	340	39,000	7,900	<100	<100	11,000	NSA	NSA	300
Lead	<5	<5	<5	<5	<5	6.2	<5	<5	<5	<5	NSA	5	5,000	NSA
Magnesium	9,900	8,500	5,200	4,800	7,200	17,000	23,000	1,100	13,000	22,000	NSA	NSA	NSA	NSA
Manganese	1,100	1,400	660	1,700	1,500	9,800	4,100	740	2,900	2,400	730	NSA	NSA	50
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NSA	2	2,000	NSA
Nickel	<20	21	<20	<20	36	620	520	<20	40	<20	730	100	100,000	NSA
Potassium	3,500	2,700	3,800	3,600	9,200	4,800	7,000	10,000	5,500	13,000	NSA	NSA	NSA	NSA
Selenium	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	180	50	50,000	NSA
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	180	100	100,000	NSA
Sodium	16,000	69,000	8,800	86,000	400,000	570,000	120,000	230,000	32,000	54,000	NSA	NSA	NSA	NSA
Thallium	20	13	18	12	16	14	13	22	44	15	2.6	2	2,000	NSA
Vanadium	<10	<10	<10	<10	<10	<10	30	<10	<10	<10	37	260	260,000	NSA
Zinc	<20	<20	<20	<20	<20	61	52	<20	54	30	11,000	2,000	2,000,000	NSA
Attenuation Parameters: (4)														
Alkalinity	23	100	53	98	130	970	81	230	50	88	---	---	---	---
Carbon TOC	3	6.1	1.4	8.8	28	53	13	10	3.9	3.1	---	---	---	---
Chloride	52	31	11	17	26	140	69	11	3.7	42	---	---	---	---
DO	0.93	2.38	1.79	1.18	1.04	3.91	2.44	0.7	4.54	3.89	---	---	---	---
Ethane	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	---	---	---	---
Ethene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	---	---	---	---
Iron	29	0.58	7.5	0.43	9.4	0.39	27 J*	7.7	<0.1	<0.1	---	---	---	---
Iron Ferric	11	<1	7.5	<1	9.4	<1	13	7.7	<1	<1	---	---	---	---
Iron Ferrous	18	<1	<1	<1	<1	<1	14	<1	<1	<1	---	---	---	---
Methane	0.13	<0.071	<0.071	<0.071	2.9 D	1 D	0.48	<0.071	<0.071	<0.071	---	---	---	---
Nitrogen NO3-N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.8	2.2	---	---	---	---
pH	5.96	6.05	6.75	6.18	6.61	6.69	5.87	7.13	5.46	5.65	---	---	---	6.5 - 8.5
REDOX (mV)	-27	73	-48	70	-136	-41	-3	-185	210	184	---	---	---	---
Specific Conductivity (mS/cm)	0.439	0.455	0.227	0.528	1.76	2.65	1.48	1.08	0.358	0.826	---	---	---	---
Sulfate	43	40	18	52	87	73	220	190	23	260	---	---	---	---
Sulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	---	---	---
Temperature (°C)	12.43	12.38	13.35	11.71	12.74	11.84	16.95	13.08	14.52	17.22	---	---	---	---
Turbidity	26	25.9	81.9	0	9.9	84.8	19.6	8.9	21.1	4.1	---	---	---	---

Notes:

(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Natural Attenuation parameters, and Target Analyte List (TAL) Metals. Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter (µg/l), except for the attenuation parameters, which are in milligrams per liter (mg/l).
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Medium Specific Concentrations (November 2001).
(4) - Attenuation data collected from field measurements include DO, pH, REDOX, Specific Conductivity, Temperature and Turbidity.
(5) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, chromium III
* - DUP-MW-BD is duplicate of MW-9.
** - FB-1 was submitted for analysis with MW-13.
FB-2 was submitted for analysis with MW-2D, MW-4, MW-4D, MW-7, MW-9, MW-11D, MW-12D, and DUP-MW-BD.
*** - TB-1 was submitted for analysis with MW-1D, MW-1S, and MW-2S.
TB-2 was submitted for analysis with MW-2D, MW-4, MW-4D, MW-7, MW-9, MW-11D, MW-12D, FB-2, and DUP-MW-BD.
TB-3 was submitted for analysis with MW-13, FB-1, and UST-MW-1.
TB-4 was submitted for analysis with MW-3 and MW-5.
EPA - Environmental Protection Agency
RBC - Risk Based Concentration (EPA Region III Oct. 8, 2004)
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
E - Result is estimated. Usually this qualifier indicates the reported concentration is above the laboratory reporting limit.
J - Estimated Value
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
Bold - Compound was detected above its PADEP MSC
Underline - Compound was detected above its EPA RBC or SMCL
NA - Not analyzed
NSA - No standard available
L - Biased low.
J* - estimated value (by the validator).

TABLE 10 (Continued)

SUMMARY OF ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED FROM THE PERMANENT ON-SITE MONITORING WELLS SDG 7 MAY 2004

ANALYTICAL PARAMETERS (1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS (2)													EPA RBC TAP WATER	PADEP RUA MSC (3)	PADEP RNUA MSC (3)	PADEP SMCL
	MW-9	DUP-MW-BD*	MW-10	MW-11D	MW-12D	MW-13	UST-MW-1	FB-1**	FB-2**	TB-1***	TB-2***	TB-3***	TB-4***				
Volatile Organic Compounds:																	
Benzene	<1	<1	<1	<2	0.5 J	<1	<1	<1	<1	<1	<1	<1	<1	0.34	5	500	NSA
Carbon Disulfide	<1	<1	<	<2	0.4 J	<1	<1	<1	<1	<1	<1	<1	<1	1,000	1,900	1,900	NSA
Chlorobenzene	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	110	100	10,000	NSA
Dichloroethane, 1,1-	1	2	<1	<2	2	<1	<1	<1	<1	<1	<1	<1	<1	800	27	270	NSA
Dichloroethylene, 1,1-	<1	<1	<1	1 J	<1	<1	<1	<1	<1	<1	<1	<1	<1	350	7	70	NSA
Dichloroethylene, trans-1,2-	<1	<1	<1	<2	1 J	<1	<1	<1	<1	<1	<1	<1	<1	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	1	2	<1	79	9	0.4 J	<1	<1	<1	<1	<1	<1	<1	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<1	<1	<1	<2	170 D	<1	<1	<1	<1	<1	<1	<1	<1	4.1	5	500	NSA
Dichloropropane, 1,2-	<1	<1	<1	<2	0.5 J	<1	<1	<1	<1	<1	<1	<1	<1	0.16	5	50	NSA
Methyl tert-Butyl Ether (MTBE)	<2	<2	<2	5 J	<2	<2	3	<2	<2	<2	<2	<2	<2	2.60	20	20	NSA
Tetrachloroethylene (PCE)	<1	<1	47	<2	1	<1	<1	<1	<1	<1	<1	<1	<1	0.10	5	50	NSA
Trichloroethylene (TCE)	<1	<1	<1	<2	2	<1	<1	<1	<1	<1	<1	<1	<1	0.026	5	50	NSA
Vinyl Chloride	2	4	<1	10	1	<1	<1	<1	<1	<1	<1	<1	<1	0.015	2	20	NSA
Semivolatile Organic Compounds:																	
Benzoic acid	<19	<19	<19	14 J	<19 L	<19	<20	<19	<19	NA	NA	NA	NA	150,000	150,000	150,000	NSA
Bis-(2-Ethylhexyl)phthalate	<9	<9	<10	<10	4 J	<9	<10	<10	<9	NA	NA	NA	NA	4.8	6	290	NSA
Cresol,p- (Methylphenol, 4-)	<9	<9	<10	46	<10	<9	<10	<10	<9	NA	NA	NA	NA	180	180	510	NSA
Dichlorobenzene,1,2-	<9	<9	2 J	<10	<10 L	<9	<10	<10	<9	NA	NA	NA	NA	270	600	60,000	NSA
Dichlorobenzene,1,4-(P-)	<9	<9	<10	<10	<10 L	<9	<10	<10	<9	NA	NA	NA	NA	0.47	75	7,500	NSA
Naphthalene	<0.2	<0.2	<0.2	<0.2	<0.2 L	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	6.5	100	30,000	NSA
Inorganic Compounds:																	
Aluminum	<200	<200	2,900	<200	1,300	370	<200	<200	<200	NA	NA	NA	NA	37,000	NSA	NSA	200
Antimony	<6	<6	<5	<6	<6	<6	<6	<6	<6	NA	NA	NA	NA	15	6	6,000	NSA
Arsenic	19	18	<3	<8	<8	<8	<8	<8	<8	NA	NA	NA	NA	0.045	50	50,000	NSA
Barium	<200	<200	<200	270	<200	<200	<200	<200	<200	NA	NA	NA	NA	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	4.8	<2	<2	<2	<2	NA	NA	NA	NA	73	4	4,000	NSA
Cadmium	<4	<4	<4	<4	<4	<4	<4	<4	<4	NA	NA	NA	NA	18	5	5,000	NSA
Calcium	43,000	42,000	18,000	96,000	200,000	22,000	57,000	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Chromium (5)	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	55,000	100	100,000	NSA
Cobalt	<10	<10	14	<10	270	26	<10	<10	<10	NA	NA	NA	NA	730	730	730,000	NSA
Copper	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	NA	NA	NA	1,500	1,000	1,000,000	NSA
Iron	3,500	3,400	19,000	31,000	92,000	<100	<100	<100	<100	NA	NA	NA	NA	11,000	NSA	NSA	300
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NSA	5	5,000	NSA
Magnesium	10,000	10,000	6,500	32,000	97,000	14,000	14,000	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Manganese	520	510	7,400	4,100	16,000	1,000	<15	<15	<15	NA	NA	NA	NA	730	NSA	NSA	50
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NSA	2	2,000	NSA
Nickel	<20	<20	<20	27	180	51	31	<20	<20	NA	NA	NA	NA	730	100	100,000	NSA
Potassium	3,300	3,300	13,000	14,000	15,000	2,000	4,900	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Selenium	<20	<20	<20	<20	<20	<20	<20	<20	<20	NA	NA	NA	NA	180	50	50,000	NSA
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	180	100	100,000	NSA
Sodium	19,000	19,000	26,000	60,000	140,000	23,000	19,000	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Thallium	<10	<10	17	16	23	13	14	<10	<10	NA	NA	NA	NA	2.6	2	2,000	NSA
Vanadium	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	37	260	260,000	NSA
Zinc	43	40	<20	<20	530	<20	66	<20	<20	NA	NA	NA	NA	11,000	2,000	2,000,000	NSA
Attenuation Parameters: (4)																	
Alkalinity	130	130	37	320	55	75	150	<2	<2	NA	NA	NA	NA	---	---	---	---
Carbon TOC	4.9	4.8	2.7	240	5.7	4.1	4.4	<0.5	0.6	NA	NA	NA	NA	---	---	---	---
Chloride	5.7	13	3.7	50	22	26	15	<1	<1	NA	NA	NA	NA	---	---	---	---
DO	3.67	3.67	0.97	0.9	1.34	4.87	4.88	NA	NA	NA	NA	NA	NA	---	---	---	---
Ethane	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	---	---	---	---
Ethene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	---	---	---	---
Iron	3.7	4.1	19	35	93	0.18	0.18	<0.1	<0.1	NA	NA	NA	NA	---	---	---	---
Iron Ferric	1.5	1.9	7	18	77	<1	<1	<1	<1	NA	NA	NA	NA	---	---	---	---
Iron Ferrous	2.2	2.2	12	17	16	<1	<1	<1	<1	NA	NA	NA	NA	---	---	---	---
Methane	0.12	0.14	<0.071	0.4	<0.071	<0.071	<0.071	<0.071	<0.071	NA	NA	NA	NA	---	---	---	---
Nitrogen NO3-N	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	---	---	---	---
pH	6.3	6.3	5.75	6.78	5.82	5.39	6.18	NA	NA	NA	NA	NA	NA	---	---	---	6.5 - 8.5
REDOX (mV)	-86	-86	35	-141	0	152	91	NA	NA	NA	NA	NA	NA	---	---	---	---
Specific Conductivity (mS/cm)	0.464	0.464	0.415	1.1	2.45	0.364	0.507	NA	NA	NA	NA	NA	NA	---	---	---	---
Sulfate	27	26	90	<5	1,300	41	38	<5	<5	NA	NA	NA	NA	---	---	---	---
Sulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	---	---	---	---
Temperature (°C)	15.64	15.64	14.1	17.41	18.8	15.21	17.29	NA	NA	NA	NA	NA	NA	---	---	---	---
Turbidity	5.2	5.2	28.5	48.1	76.8	32.1	28.4	NA	NA	NA	NA	NA	NA	---	---	---	---

Notes:

(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Natural Attenuation parameters, and Target Analyte List (TAL) Metals. Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter (µg/l), except for the attenuation parameters, which are in milligrams per liter (mg/l).
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Medium Specific Concentrations (November 2001).
(4) - Attenuation data collected from field measurements include DO, pH, REDOX, Specific Conductivity, Temperature and Turbidity.
(5) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, chromium III
* - DUP-MW-BD is duplicate of MW-9.
** - FB-1 was submitted for analysis with MW-13.
FB-2 was submitted for analysis with MW-2D, MW-4, MW-4D, MW-7, MW-9, MW-11D, MW-12D, and DUP-MW-BD.
*** - TB-1 was submitted for analysis with MW-1D, MW-1S, and MW-2S.
TB-2 was submitted for analysis with MW-2D, MW-4, MW-4D, MW-7, MW-9, MW-11D, MW-12D, FB-2, and DUP-MW-BD.
TB-3 was submitted for analysis with MW-13, FB-1, and UST-MW-1.
TB-4 was submitted for analysis with MW-3 and MW-5.
EPA - Environmental Protection Agency
RBC - Risk Based Concentration (EPA Region III Oct. 8, 2004)
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
Bold - Compound was detected above its PADEP MSC
Underline - Compound was detected above its EPA RBC or SMCL
NA - Not analyzed
NSA - No standard available

REV.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

Penn E&R
Environmental & Remediation, Inc.
COST EFFECTIVE ENVIRONMENTAL SOLUTIONS
2755 BERGEY ROAD, HATFIELD, PA 19440
(215) 997-9000
359 NORTH GATE DRIVE, SUITE 400, WARRENDALE, PA 15086
(724) 934-3530

DWG FILE: HA5220
DESIGNED BY: JW
DRAWN BY: MTH
CHKD BY: JW
DATE: OCT. 3, 2008
GRAPHIC SCALE: AS SHOWN
FIGURE NO.:
SHEET NO.: 1 OF 3

Exhibit D
Uniform Environmental Covenant Act (UECA)
Ground Water Analytical Results Summary
BRLP/Waterside Site
2375 State Road, Bensalem, Bucks County, PA.

TABLE 10 (continued)

SUMMARY OF ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED
FROM THE TEMPORARY ON-SITE MONITORING WELLS
SDG 7
MAY 2004

ANALYTICAL PARAMETERS(1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS(2)								EPA RBC TAP WATER	PADEP RUA MSC(3)	PADEP RNUA MSC(3)	PADEP SMCL
	TW-1	TW-2	TW-3	TW-5	TW-6	TW-7	TW-8	TW-9				
Volatile Organic Compounds:												
Acetone	17	2 JB	<30 R	<6	<6	<6	<6	<6	5,500	3,700	37,000	NSA
Benzene	<1	2 J	<5	<1	<1	<1	<1	<1	0.34	5	500	NSA
Carbon Disulfide	0.7 J	<2	<5	<1	<1	<1	<1	<1	1,000	1,900	1,900	NSA
Chlorobenzene	<1	77	4 J	<1	<1	<1	<1	<1	110	100	10,000	NSA
Chloroform	0.9 J	<2	<5	<1	<1	<1	<1	<1	0.15	100	1,000	NSA
Dichloroethane, 1,1-	<1	<2	2 J	0.5 J	<1	1	<1	0.4 J	800	27	270	NSA
Dichloroethylene, 1,1-	<1	<2	<5	<1	0.4 J	<1	<1	<1	350	7	70	NSA
Dichloroethylene, trans-1,2-	<1	<2	2 J	<1	6	4	<1	<1	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	8	2 J	450 E	9	100 E	22	<1	<1	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	2	<2	<5	<1	<1	<1	<1	<1	4.1	5	500	NSA
Dichloropropane, 1,2-	<1	<2	<5	<1	<1	<1	<1	1 J	0.16	5	50	NSA
Ethylbenzene	0.9 J	<2	<5	<1	<1	<1	<1	<1	1,300	700	70,000	NSA
Methyl Ethyl Ketone (2-Butanone)	1 J	<15	<30	<6	<6	<6	<6	<6	7,000	2,800	280,000	NSA
Methyl tert-Butyl Ether (MTBE)	<2	<5	<10	<2	<2	<2	0.5 J	<2	2.6	20	20	NSA
Tetrachloroethylene (PCE)	4	<2	250	<1	8	2	4	<1	0.10	5	50	NSA
Toluene	3	<2	<5	0.7 J	<1	<1	<1	<1	750	1,000	100,000	NSA
Trichloroethylene (TCE)	2	<2	140	<1	11	6	<1	<1	0.026	5	50	NSA
Vinyl Chloride	<1	<2	60	<1	1	0.6 J	<1	<1	0.015	2	20	NSA
Xylenes (Total)	2.5	<2	<5	0.9 J	<1	<1	<1	<1	210	10,000	180,000	NSA
Semivolatile Organic Compounds:												
Acenaphthene	2.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	370	2,200	3,800	NSA
Anthracene	0.23	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1,800	66	66	NSA
Benzoic acid	7 J	<22	<19	<21	<19	<19	<19	<20	150,000	150,000	150,000	NSA
Benzyl alcohol	6 J	<11	<10	<10	<10	<10	<10	<10	11,000	11,000	11,000	NSA
Bis-(2-Ethylhexyl)phthalate	<10	<11	<10	<10	<10	<10	3 J	<10	4.8	6	290	NSA
Dichlorobenzene,1,2-	<10	5 J	4 J	<10	<10	<10	<10	<10	270	600	60,000	NSA
Fluoranthene	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1,500	260	260	NSA
Naphthalene	8.6	1.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	6.5	100	30,000	NSA
Phenanthrene	1.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NSA	1,100	1,100	NSA
Pyrene	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	180	130	130	NSA
Inorganic Compounds:												
Aluminum	1,600	6,000	2,400	1,000	880	30,000	26,000	<200	37,000	NSA	NSA	200
Antimony	<6	<6	<6	<6	<6	<6	<6	<6	15	6	6,000	NSA
Arsenic	110	11	<8	<8	<8	<8	<8	<8	0.045	50	50,000	NSA
Barium	<200	<200	<200	<200	<200	<200	<200	<200	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	<2	7	4.3	<2	73	4	4,000	NSA
Cadmium	<4	<4	<4	<4	<4	<4	<4	<4	18	5	5,000	NSA
Calcium	4,000	33,000	19,000	13,000	4,200	210,000	49,000	100,000	NSA	NSA	NSA	NSA
Chromium	<10	15	<10	<10	<10	<10	<10	<10	55,000	100	100,000	NSA
Cobalt	<10	31	99	<10	11	110	42	23	730	730	730,000	NSA
Copper	<20	30	110	<20	<20	<20	52	<20	1500	1,000	1,000,000	NSA
Iron	2,100	32,000	<100	340	180	96,000	470	280	11,000	NSA	NSA	300
Lead	7.9	6.9	<5	<5	<5	<5	<5	<5	NSA	5	5,000	NSA
Magnesium	1,100	6,200	8,700	6,000	2,200	38,000	20,000	27,000	NSA	NSA	NSA	NSA
Manganese	20	9,700	1,200	790	1,400	7,900	2,800	2,600	730	NSA	NSA	50
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NSA	2	2,000	NSA
Nickel	26	21	220	<20	60	140	64	<20	730	100	100,000	NSA
Potassium	4,000	6,300	4,800	2,300	1,200	7,900	2,300	4,600	NSA	NSA	NSA	NSA
Selenium	<20	<20	<20	<20	<20	<20	<20	<20	180	50	50,000	NSA
Silver	<10	<10	<10	<10	<10	<10	<10	<10	180	100	100,000	NSA
Sodium	290,000	59,000	94,000	32,000	280,000	120,000	13,000	11,000	NSA	NSA	NSA	NSA
Thallium	22	12	14	16	<10	36	20	23	2.6	2	2,000	NSA
Vanadium	17	33	<10	<10	<10	<10	<10	<10	37	260	260,000	NSA
Zinc	<20	470	70	<20	<20	1,400	420	23	11,000	2,000	2,000,000	NSA
Attenuation Parameters: (5)												
Alkalinity	460	160	180	54	310	<2	<2	36	---	---	---	---
Carbon TOC	12	17	12	6.3	16	5.8	1.4	3.5	---	---	---	---
Chloride	35	4.7	29	15	46	7.3	17	2.1	---	---	---	---
DO	8.28	2.92	8.69	8.63	1.77	1.48	4.48	1.28	---	---	---	---
Ethane	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	---	---	---	---
Ethene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	---	---	---	---
Iron	25	19	14	11	190	98	0.51	0.24	---	---	---	---
Iron Ferric	25	19	14	11	190	80	<1	<1	---	---	---	---
Iron Ferrous	<1	<1	<1	<1	<1	18	<1	<1	---	---	---	---
Methane	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	---	---	---	---
Nitrogen NO3-N	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.7	<0.1	---	---	---	---
pH	9.61	6.25	6.28	5.72	7.1	3.95	3.47	5.76	---	---	---	6.5 - 8.5
REDOX (mV)	-174	-85	183	147	-51	285	462	147	---	---	---	---
Specific Conductivity (mS/cm)	1.28	0.538	0.669	0.202	1.37	2.48	0.786	0.829	---	---	---	---
Sulfate	32	33	47	18	150	1,300	320	400	---	---	---	---
Sulfide	<1	<1	<1	<1	<1	<1	<1	<1	---	---	---	---
Temperature (°C)	15.76	20.53	15.34	16.1	13.31	13.08	14.99	13.81	---	---	---	---
Turbidity	451	999	999	500	487	0	13.7	0	---	---	---	---

Notes:
(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Natural Attenuation parameters, and Target Analyte List (TAL) Metals. Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter (µg/l), except for the attenuation parameters, which are in milligrams per liter (mg/l).
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act,
(4) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, chromium III
(5) - Attenuation data collected from field meausrements include DO, pH, REDOX, Specific Conductivity, Temperature and Turbidity.
Medium Specific Concentrations (November 2001).
* - FB-1 was submitted for analysis with TW-1.
FB-2 was submitted for analysis with TW-3, TW-10, and TW-12.
** - TB-1 was submitted for analysis with TW-5, TW-6, TW-7, TW-9, and TW-11.
TB-2 was submitted for analysis with TW-3, TW-10, TW-12, and FB-2.
TB-3 was submitted for analysis with TW-1 and FB-1.
TB-4 was submitted for analysis with TW-8.

EPA - Environmental Protection Agency
RBC - Risk Based Concentration (EPA Region III Oct. 8, 2004)
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
Bold - Compound was detected above its PADEP MSC
Underline - Compound was detected above its EPA RBC or SMCL
R - Rejected value. Result may not be reliable.
E - Result is estimated. Usually this qualifier indicates the reported concentration is above the lab. reporting limit.
J - Estimated Value
B - Analyte also present in the method blank
NA - Not analyzed
NSA - No standard available

TABLE 10 (continued)

SUMMARY OF ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED
FROM THE TEMPORARY ON-SITE MONITORING WELLS
SDG 7
MAY 2004

ANALYTICAL PARAMETERS(1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS(2)									EPA RBC TAP WATER	PADEP RUA MSC(3)	PADEP RNUA MSC(3)	PADEP SMCL
	TW-10	TW-11	TW-12	FB-1*	FB-2*	TB-1**	TB-2**	TB-3**	TB-4**				
Volatile Organic Compounds:													
Acetone	<15 R	<6	<6	<6	<6	<6	<6	<6	<6	5,500	3,700	37,000	NSA
Benzene	<2	<1	<1	<1	<1	<1	<1	<1	<1	0.34	5	500	NSA
Carbon Disulfide	<2	<1	<1	<1	<1	<1	<1	<1	<1	1,000	1,900	1,900	NSA
Chlorobenzene	<2	<1	<1	<1	<1	<1	<1	<1	<1	110	100	10,000	NSA
Chloroform	<2	<1	<1	<1	<1	<1	<1	<1	<1	0.15	100	1,000	NSA
Dichloroethane, 1,1-	<2	<1	2	<1	<1	<1	<1	<1	<1	800	27	270	NSA
Dichloroethylene, 1,1-	<2	<1	<1	<1	<1	<1	<1	<1	<1	350	7	70	NSA
Dichloroethylene, trans-1,2-	<2	<1	0.5 J	<1	<1	<1	<1	<1	<1	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	<2	<1	48	<1	<1	<1	<1	<1	<1	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<2	<1	<1	<1	<1	<1	<1	<1	<1	4.1	5	500	NSA
Dichloropropane, 1,2-	<2	<1	<1	<1	<1	<1	<1	<1	<1	0.16	5	50	NSA
Ethylbenzene	<2	<1	<1	<1	<1	<1	<1	<1	<1	1,300	700	70,000	NSA
Methyl Ethyl Ketone (2-Butanone)	<15	<6	<6	<6	<6	<6	<6	<6	<6	7,000	2,800	280,000	NSA
Methyl tert-Butyl Ether (MTBE)	<5	<2	<2	<2	<2	<2	<2	<2	<2	2.6	20	20	NSA
Tetrachloroethylene (PCE)	91	<1	0.8 J	<1	<1	<1	<1	<1	<1	0.10	5	50	NSA
Toluene	<2	<1	<1	<1	<1	<1	<1	<1	<1	750	1,000	100,000	NSA
Trichloroethylene (TCE)	<2	<1	0.6 J	<1	<1	<1	<1	<1	<1	0.026	5	50	NSA
Vinyl Chloride	<2	<1	0.8 J	<1	<1	<1	<1	<1	<1	0.015	2	20	NSA
Xylenes (Total)	<2	<1	<1	<1	<1	<1	<1	<1	<1	210	10,000	180,000	NSA
Semivolatile Organic Compounds:													
Acenaphthene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	370	2,200	3,800	NSA
Anthracene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	1,800	66	66	NSA
Benzoic acid	<19J*	<19	<19	<19	<19	NA	NA	NA	NA	150,000	150,000	150,000	NSA
Benzyl alcohol	<9 J*	<10	<10	<10	<9	NA	NA	NA	NA	11,000	11,000	11,000	NSA
Bis-(2-Ethylhexyl)phthalate	<9 J*	<10	<10	<10	<9	NA	NA	NA	NA	4.8	6	290	NSA
Dichlorobenzene,1,2-	<9 J*	<10	<10	<10	<9	NA	NA	NA	NA	270	600	60,000	NSA
Fluoranthene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	1,500	260	260	NSA
Naphthalene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	6.5	100	30,000	NSA
Phenanthrene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	NSA	1,100	1,100	NSA
Pyrene	<0.2 J*	<0.2	<0.2	<0.2	<0.2	NA	NA	NA	NA	180	130	130	NSA
Inorganic Compounds:													
Aluminum	1,500	5,700	<200	<200	<200	NA	NA	NA	NA	37,000	NSA	NSA	200
Antimony	<6	<6	<6	<6	<6	NA	NA	NA	NA	15	6	6,000	NSA
Arsenic	<8	<8	<8	<8	<8	NA	NA	NA	NA	0.045	50	50,000	NSA
Barium	<200	<200	<200	<200	<200	NA	NA	NA	NA	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	<2	NA	NA	NA	NA	73	4	4,000	NSA
Cadmium	<4	<4	<4	<4	<4	NA	NA	NA	NA	18	5	5,000	NSA
Calcium	24,000	13,000	15,000	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Chromium (4)	<10	<10	<10	<10	<10	NA	NA	NA	NA	55,000	100	100,000	NSA
Cobalt	<10	25	<10	<10	<10	NA	NA	NA	NA	730	730	730,000	NSA
Copper	<20	<20	<20	<20	<20	NA	NA	NA	NA	1,500	1,000	1,000,000	NSA
Iron	<100	5,500	3,900	<100	<100	NA	NA	NA	NA	11,000	NSA	NSA	300
Lead	<5	<5	<5	<5	<5	NA	NA	NA	NA	NSA	5	5,000	NSA
Magnesium	4,200	4,200	5,200	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Manganese	240	1,900	1,000	<15	<15	NA	NA	NA	NA	730	NSA	NSA	50
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NSA	2	2,000	NSA
Nickel	<20	49	<20	<20	<20	NA	NA	NA	NA	730	100	100,000	NSA
Potassium	4,500	8,200	3,100	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Selenium	<20	<20	<20	<20	<20	NA	NA	NA	NA	180	50	50,000	NSA
Silver	<10	<10	<10	<10	<10	NA	NA	NA	NA	180	100	100,000	NSA
Sodium	7,800	49,000	14,000	<1000	<1,000	NA	NA	NA	NA	NSA	NSA	NSA	NSA
Thallium	10	16	<10	<10	<10	NA	NA	NA	NA	2.6	2	2,000	NSA
Vanadium	<10	<10	<10	<10	<10	NA	NA	NA	NA	37	260	260,000	NSA
Zinc	45	83	<20	<20	<20	NA	NA	NA	NA	11,000	2,000	2,000,000	NSA
Attenuation Parameters: (5)													
Alkalinity	40	35	78	<2	<2	NA	NA	NA	NA	---	---	---	---
Carbon TOC	3.6 J*	9.1	4.4	<0.5	0.6	NA	NA	NA	NA	---	---	---	---
Chloride	3.6	5.2	7.3	<1	<1	NA	NA	NA	NA	---	---	---	---
DO	8.53	5.87	5.63	NA	NA	NA	NA	NA	NA	---	---	---	---
Ethane	<0.13	<0.13	<0.13	NA	NA	NA	NA	NA	NA	---	---	---	---
Ethene	<0.13	<0.13	<0.13	<0.13	<0.13	NA	NA	NA	NA	---	---	---	---
Iron	45	6.1	30	<0.1	<0.1	NA	NA	NA	NA	---	---	---	---
Iron Ferric	45	5.3	28	<1	<1	NA	NA	NA	NA	---	---	---	---
Iron Ferrous	<1	3.8	2.4	<1	<1	NA	NA	NA	NA	---	---	---	---
Methane	<0.071	<0.071	<0.071	NA	NA	NA	NA	NA	NA	---	---	---	---
Nitrogen NO3-N	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	---	---	---	---
pH	5.68	5.63	6.09	NA	NA	NA	NA	NA	NA	---	---	---	6.5 - 8.5
REDOX (mV)	174	34	-45	NA	NA	NA	NA	NA	NA	---	---	---	---
Specific Conductivity (mS/cm)	0.254	0.42	0.338	NA	NA	NA	NA	NA	NA	---	---	---	---
Sulfate	54	120	23	<5	<5	NA	NA	NA	NA	---	---	---	---
Sulfide	<1	<1	<1	<1	<1	NA	NA	NA	NA	---	---	---	---
Temperature (°C)	13.63	13.45	14.48	NA	NA	NA	NA	NA	NA	---	---	---	---
Turbidity	368	0	999	NA	NA	NA	NA	NA	NA	---	---	---	---

Notes:
(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Natural Attenuation parameters, and Target Analyte List (TAL) Metals. Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter (µg/l), except for the attenuation parameters, which are in milligrams per liter (mg/l).
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act,
(4) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, chromium III
(5) - Attenuation data collected from field meausrements include DO, pH, REDOX, Specific Conductivity, Temperature and Turbidity.
Medium Specific Concentrations (November 2001).
* - FB-1 was submitted for analysis with TW-1.
FB-2 was submitted for analysis with TW-3, TW-10, and TW-12.
** - TB-1 was submitted for analysis with TW-5, TW-6, TW-7, TW-9, and TW-11.
TB-2 was submitted for analysis with TW-3, TW-10, TW-12, and FB-2.
TB-3 was submitted for analysis with TW-1 and FB-1.
TB-4 was submitted for analysis with TW-8.

EPA - Environmental Protection Agency
RBC - Risk Based Concentration (EPA Region III Oct. 8, 2004)
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
NA - Not analyzed
NSA - No standard available
J - Estimated Value
R - Rejected value. Result may not be reliable.
J* - Estimated Value (by validator).
Bold - Compound was detected above its PADEP MSC
Underline - Compound was detected above its EPA RBC or SMCL

TABLE 29

SUMMARY OF ACT 2 PLUS ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED
FROM THE TEMPORARY OVERBURDEN WELLS
SDG 6
INITIAL EVENT

ANALYTICAL PARAMETERS(1)	SAMPLE DESIGNATION/ANALYTICAL RESULTS(2)																EPA RBC TAP WATER	PADEP RUA MSC(3)	PADEP RNUA MSC(3)	PADEP SMCL
	TW-1	TW-1*	TW-2	TW-3	TW-3*	TW-5	TW-6	TW-7	TW-8	TW-8A**	TW-9	TW-9A***	TW-10	TW-11	TW-12	TW-12*				
Volatile Organic Compounds:																				
Acetone	<30	NA	18 J	<30	NA	2 J	<30	<6	<6	<6	<6	<6	<6	<6	<6	NA	5,500	3,700	37,000	NSA
Benzene	<5	NA	6	<5	NA	<1	<5	0.5 J	<1	<1	<1	<1	<1	<1	<1	NA	0.34	5	500	NSA
Chlorobenzene	<5	NA	270 D	2 J	NA	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	NA	110	100	10,000	NSA
Dichloroethane, 1,1-	<5	ND	<5	<5	1 J	0.4 J	<5	3	<1	<1	<1	<1	<1	<1	<1	ND	800	27	270	NSA
Dichloroethylene, trans-1,2-	<5	ND	<5	<5	2.1	<1	8	8	<1	<1	<1	<1	<1	<1	<1	ND	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	28	31.7	4 J	150	147	4	140	39	<1	<1	<1	<1	<1	<1	<1	ND	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<5	18.3	<5	2 J	104	0.4 J	2 J	0.6 J	0.9 J	1 J	<1	<1	<1	<1	0.5 J	NA	4.1	5	500	NSA
Ethylbenzene	<5	NA	15	<5	NA	<1	<5	0.5 J	<1	<1	<1	<1	<1	<1	<1	NA	1,300	700	70,000	NSA
Tetrachloroethylene (PCE)	16	13.2	<5	110	65.9	<1	14	2	6	6	<1	<1	200 D	<1	<1	ND	0.10	5	50	NSA
Toluene	<5	ND	<5	<5	9.5	<1	<5	0.4 J	<1	<1	<1	<1	<1	<1	<1	NA	750	1,000	100,000	NSA
Trichloroethylene (TCE)	10	NA	4 J	62	NA	0.4 J	19	11	<1	<1	<1	<1	1	<1	<1	ND	0.026	5	50	NSA
Trichloropropane, 1,2,3-	NA	3 J	NA	NA	5.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.005	40	4,000	NSA
Vinyl Chloride	<5	NA	<5	9	NA	<1	4 J	2	<1	<1	<1	<1	<1	<1	<1	ND	0.015	2	20	NSA
Xylenes (Total)	<5	NA	140	<5	NA	<1	<5	3	<1	<1	<1	<1	<1	<1	<1	NA	210	10,000	180,000	NSA
Semivolatile Organic Compounds:																				
Benzoic acid	11 J	NA	<19	<19	NA	<19	1 J	<19	<19	<20	<19	<19	<19	<19	<19	NA	150,000	150,000	150,000	NSA
Benzyl alcohol	2 J	NA	<10	<9	NA	<9	<10	<10	<9	<10	<9	<10	<9	<9	<9	NA	11,000	11,000	11,000	NSA
Bis-(2-Ethylhexyl)phthalate	5 J	3 JB	<10	<9	2 JB	<9	3 J	<10	<9	<10	<9	<10	<9	<9	<9	1 JB	4.8	6	290	NSA
Dichlorobenzene,1,2-	<10	ND	30	3 J	5.2	<9	1 J	<10	<9	<10	<9	<10	<9	<9	<9	ND	270	600	60,000	NSA
Dichlorobenzene,1,4-(P-)	<10	ND	2 J	<9 L	1 J	<9	<10	<10	<9	<10	<9	<10	<9	<9	<9	ND	0.47	75	7,500	NSA
Dichlorophenol,2,4-	<10	1 J	<10	<9	ND	<9	<10	<10	<9	<10	<9	<10	<9	<9	<9	ND	110	20	20	NSA
Dimethylphenol,2,4-	<10	ND	14	<9	ND	<9	<10	<10	<9	<10	<9	<10	<9	<9	<9	ND	730	730	730,000	NSA
Fluorene	<0.2	NA	<0.2	<0.2	NA	<0.2	<0.2	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	240	1,500	1,900	NSA
Methylnaphthalene,2-	<10	NA	<10	<9	NA	<9	<10	1 J	<9	<10	<9	<10	<9	<9	<9	NA	24	730	730	NSA
Naphthalene	<0.2	ND	0.72	<0.2	ND	<0.2	<0.2	0.86	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND	6.5	100	30,000	NSA
Phenanthrene	<0.2	NA	<0.2	<0.2	NA	<0.2	<0.2	0.47	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NA	NSA	1,100	1,100	NSA
PCBs:																				
Aroclor - 1260	NA	NA	NA	2.8	1.6	<0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.033	1.1	1.1	NSA
Inorganic Compounds:																				
Aluminum	460	470	<200	1,300	1,250	480	480	31,000	48,000	46,000	<200	<200	1,500	7,300	<200	<90	37,000	NSA	NSA	200
Antimony	59	56	<6	<6	<20	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<20	15	6	6,000	NSA
Arsenic	<8	4 J	<8	<8	<15	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	6 J	0.045	50	50,000	NSA
Barium	<200	15	<200	<200	30.9	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	29.7	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	0.6 J	<2	<2	9	6	7	<2	<2	<2	<2	<2	<2	73	4	4,000	NSA
Cadmium	<4	3.1	<4	<4	1 J	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2.5	18	5	5,000	NSA
Calcium	18,000	17,500	32,000	21,000	19,600	19,000	6,200	210,000	64,000	65,000	37,000	35,000	30,000	13,000	21,000	19,400	NSA	NSA	NSA	NSA
Chromium(4)	<10	3 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	55,000	100	100,000	NSA
Cobalt	<10	7 J	<10	110	100	11	14	92	83	84	<10	<10	<10	22	<10	<15	730	730	730,000	NSA
Copper	21	24	<20	87	97	<20	<20	<20	43	42	<20	<20	<20	<20	<20	<10	1,500	1,000	1,000,000	NSA
Iron	2,500	3,310	4,100	170	170	150	140	100,000	2,700	2,800	<100	<100	<100	3,000	330	460	11,000	NSA	NSA	300
Lead	6	6 J	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	NSA	5	5,000	NSA
Magnesium	5,600	5,570	6,400	10,000	9,450	9,300	3,400	39,000	34,000	34,000	7,900	7,700	5,100	4,700	7,200	6,730	NSA	NSA	NSA	NSA
Manganese	200	222	610	1,500	1,520	1,800	2,300	5,600	5,700	5,700	67	67	420	2,800	71	90.5	730	NSA	NSA	50
Mercury	<0.5	0.02 J	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	NSA	2	2,000	NSA
Nickel	41	39	<20	230	216	<20	85	140	120	120	<20	<20	<20	39	<20	<10	730	100	100,000	NSA
Potassium	5,900	6,090	4,300	4,800	4,810	3,400	2,100	6,700	2,900	2,800	1,300	1,200	4,800	7,700	2,100	2,000	NSA	NSA	NSA	NSA
Sodium	130,000	133,000	46,000	80,000	83,600	43,000	280,000	120,000	14,000	13,000	1,600	1,500	9,500	53,000	5,400	4,830	NSA	NSA	NSA	NSA
Zinc	160	222	67	39	42	<20	<20	1,400	700	710	<20	<20	52	200	23	25	11,000	2,000	2,000,000	5,000
pH:	10.06	NA	6.65	6.88	NA	6.08	8.14	4.44	3.72	3.72	6.7	6.7	6.72	5.64	6.89	NA	---	---	---	6.5 - 8.5

Notes:
(1) - Samples were analyzed for Target Compund List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Target Analyte List (TAL) Metals, and pH. Only analytes with concentrations above their laboratory detection limits are presented.
(2) - All results are in micrograms per liter.
(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium Specific Concentrations (November 2001).
(4) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, Chromium III.
* - EPA split samples
** - TW-8A is a duplicate of TW-8
*** - TW-9A is a duplicate of TW-9
EPA - Environmental Protection Agency
RBC - Risk Based Concentration EPA Region III Oct. 8, 2004
PADEP - Pennsylvania Department of Environmental Protection
RUA - Residential Used Aquifer
RNUA - Residential Non-Use Aquifer
MSC - Medium-Specific Concentration
SMCL - PADEP Secondary Contaminant Level
<10 - Compound was not detected above the detection limit shown
Underline - Compound was detected above its EPA RBC
Bold - Compound was detected above its PADEP MSC or SMCL
NA - Not analyzed
ND - No analytes within this compound group were detected above their respective laboratory detection limits.
NSA - No standard available
J - Estimated concentration below laboratory reporting limit
B - Analyte also present in the method blank
D - Result was obtained from a different dilution than other analytes.
L - Biased low by the data validator.

REV.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

Penn E&R
Environmental & Remediation, Inc.
COST EFFECTIVE ENVIRONMENTAL SOLUTIONS
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DWG FILE: HA5220
DESIGNED BY: JW
DRAWN BY: MTH
CHKD BY: JW
DATE: OCT. 3, 2008
GRAPHIC SCALE: AS SHOWN

Exhibit D
Uniform Environmental Covenant Act (UECA)
Ground Water Analytical Results Summary
BRLP/Waterside Site
2375 State Road, Bensalem, Bucks County, PA.

FIGURE NO.:
SHEET NO.: 2 OF 3

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TABLE 30

SUMMARY OF ACT 2 PLUS ANALYTICIAL RESULTS FOR GROUND WATER SAMPLES COLLECTED FROM THE MONITORING WELLS
SDG 5
INITIAL EVENT

ANALYTICAL PARAMETERS[1]	SAMPLE DESIGNATION/ANALYTICAL RESULTS[2]																	EPA RBC TAP WATER	PADEP RUA MSC[3]	PADEP RNUA MSC[3]	PADEP SMCL
	MW-1S	MW-1D	MW-2S	MW-2D	MW-3	MW-4	MW-4D	MW-4D*	MW-5	MW-6	MW-7	MW-9	MW-10	MW-10*	MW-11-D	MW-12D	MW-13**	UST-MW-1**				
Volatile Organic Compounds:																						
Benzene	<1	<1	<1	<1	10	8 J	<20	NA	<1	<1	<1	<1	<1	NA	<2	0.6 J	<1	<1	0.34	5	500	NSA
Bromomethane	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	<1	NA	<2	0.5 J	<1	<1	8.5	10	1,000	NSA
Chlorobenzene	0.4 J	0.2 J	<1	<1	2 J	<20	<20	NA	<1	<1	<1	<1	<1	NA	<2	2	<1	<1	110	100	10,000	NSA
Chloroform	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	<1	NA	1 J	<1	<1	<1	0.15	100	1,000	NSA
Dichloroethane, 1,1-	3	<1	4	0.7 J	2 J	<20	<20	ND	<1	<1	<1	<1	<1	ND	<2	2	<1	<1	800	27	270	NSA
Dichloroethylene, 1,1-	0.9 J	<1	3	<1	<5	<20	50	NA	<1	<1	<1	<1	<1	NA	<2	<1	<1	<1	350	7	70	NSA
Dichloroethylene, trans-1,2-	0.7 J	0.2 J	<1	<1	1 J	8 J	10 J	16 J	<1	<1	<1	<1	<1	ND	<2	2	<1	<1	120	100	1,000	NSA
Dichloroethylene,cis-1,2-	62 D	14	16	0.7 J	6	<20	1,800 D	1,720	<1	<1	<1	0.6 J	<1	ND	75	20	<1	<1	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	0.5 J	NA	2 J B*	290 D	<1	<1	4.1	5	500	NSA
Dichloropropane, 1,2-	<1	<1	<1	<1	<5	<20	<20	NA	0.3 J	<1	<1	<1	<1	NA	<2	<1	<1	<1	0.16	5	50	NSA
Ethylbenzene	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	<1	NA	<2	0.9 J	<1	<1	1,300	700	70,000	NSA
Methyl Chloride (Chloromethane)	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	<1	NA	2 J	<1	<1	<1	190	3	300	NSA
Methyl Ethyl Ketone (2-Butanone)	<6	<6	<6	<6	<30	<120	<120	NA	<6	<6	<6	<6	<6	NA	<15	2 J	<6	<6	7,000	2,800	280,000	NSA
Methyl Isobutyl Ketone (4-metyl-2-pentanone)	<6	<6	<6	<6	<30	<120	<120	NA	<6	<6	<6	<6	<6	NA	<15	0.7 J	<6	<6	6,300	190	19,000	NSA
Methyl tert-Butyl Ether (MTBE)	<2	<2	<2	<2	<10	<40	<40	NA	<2	<2	<2	<2	<2	NA	7	0.5 J	<2	<2	2.6	20	20	NSA
Tetrachloroethylene (PCE)	<1	10	1	<1	<5	<20	680	721	<1	<1	440 D	<1	40	35	8	4	<1	<1	0.10	5	50	NSA
Trichloroethylene (TCE)	2	4	2	<1	<5	<20	390	405	<1	<1	<1	<1	0.4 J	ND	6	3	<1	<1	0.026	5	50	NSA
Trichloropropane, 1,2,3-	NA	NA	NA	NA	NA	NA	NA	58 J	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	0.005	40	4,000	NSA
Vinyl Chloride	1	0.8 J	2	<1	2 J	<20	850	718	<1	<1	<1	<1	<1	ND	11	5	<1	<1	0.015	2	20	NSA
Xylenes (Total)	<1	<1	<1	<1	<5	<20	<20	NA	<1	<1	<1	<1	<1	NA	<2	7	<1	<1	210	10,000	180,000	NSA
Semivolatile Organic Compounds:																						
Benzoic acid	<19	<19	<20	<20	<23	<24	<19 L	NA	<19	<19	<25	<20	<20	NA	65	2 J	<19	<19	150,000	150,000	150,000	NSA
Benzyl alcohol	<10	<10	<10	<10	<11	<10	<9 L	NA	<10	<10	<10	<10	<10	NA	12 J	<9	<9	<9	11,000	11,000	11,000	NSA
Bis-(2-Ethylhexyl)phthalate	<10	<10	3 J B*	<10	5 J B*	<10	<9 L	37 B	2 J	<10	3 J B*	7 J	<10	1 JB	<14	2 J	<9	<9	4.8	6	290	NSA
Chloro-3-methylphenol,4-	<10	<10	<10	<10 R	<11	<10	1 J	2 J	<10	<10	<10	<10	<10	ND	<14	<9	<9	<9	NSA	180	180	NSA
Cresol,p- (Methylphenol, 4-)	<10	<10	<10	<10 R	<11	<10	6 J	12 Y	<10	<10	<10	<10	<10	ND	<14	<9	<9	<9	180	180	510	NSA
Dichlorobenzene,1,2-	<10	<10	<10	220 D	6 J	3 J	7 J	<10	<10	<10	<10	<10	2 J	4 J	<14	<9	<9	<9	270	600	60,000	NSA
Dimethylphenol,2,4-	<10	<10	<10	<10 R	<11	<10	2 J	3 J	<10	<10	<10 R	<10	<10	ND	<14	<9	<9	<9	730	730	730,000	NSA
Di-n-butylphthalate	<10	<10	<10	<10	<11	<10	<9 L	NA	<10	<10	<10	<10	<10	NA	<14	1 J	<9	<9	3,700	3,700	400,000	NSA
Fluorene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 L	NA	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.3	0.25	<0.2	<0.2	240	1,500	1,900	NSA
Naphthalene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4 L	1 J	<0.2	<0.2	<0.2	<0.2	<0.2	ND	<0.3	0.57	<0.2	<0.2	6.5	100	30,000	NSA
Phenol	<10	<10	<10	<10 R	<11	<10	<9	1 J	<10	<10	<10 R	<10	<10	ND	<14	<9	<9	<9	11,000	4,000	400,000	NSA
Chlorophenol,2-	<10	<10	<10	<10 R	<11	<10	<9	1 J	<10	<10	<10 R	<10	<10	ND	<14	<9	<9	<9	30	40	40	NSA
Cresol,o- (Methylphenol, 2-)	<10	<10	<10	<10	<11	<10	<9	1 J	<10	<10	<10	<10	<10	ND	<14	<9	<9	<9	1,800	180	180,000	NSA
Bis(2-Chloroethyl) ether	<10	<10	<10	<10	<11	<10	<9 L	4 J	<10	<10	<10	<10	<10	ND	<14	<9 L	<9	<9	0.0096	0.13	0.55	NSA
Phenanthrene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 L	NA	<0.2	<0.2	<0.2	<0.2	<0.2	NA	<0.3	0.3	<0.2	<0.2	NSA	1,100	1,100	NSA
PCBs:																						
	NA	NA	NA	NA	NA	<0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	---	---	---	NSA
Inorganic Compounds:																						
Aluminum	1,500	<200	3,000	<200	7,000	800	4,500	4,520	1,200	15,000	4,600	<200	3,500	3,390	420	<200	440	<200	37,000	NSA	NSA	200
Antimony	<6	<6	<6	<6	<6	<6	<6	<20	<6	<6	<6	<6	<6	<20	<6	<6	<6	<6	15	6	6,000	NSA
Barium	<200	<200	<200	<200	<200	<200	<200	99.1	<200	<200	<200	<200	<200	41.3	<200	<200	<200	<200	2,600	2,000	2,000,000	NSA
Beryllium	<2	<2	<2	<2	5	<2	31	31.8	<2	<2	<2	<2	<2	2.2	<2	<2	<2	<2	73	4	4,000	NSA
Calcium	14,000	26,000	11,000	17,000	6,800	25,000	110,000	106,000	1,200	5,400	70,000	27,000	18,000	17,200	45,000	240,000	16,000	52,000	NSA	NSA	NSA	NSA
Chromium[6]	<10	<10	<10	<10	<10	<10	<10	3 J	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	55,000	100	100,000	NSA
Cobalt	20	<10	17	<10	<10	160	68	67	<10	<10	<10	<10	15	10 J	63	120	19	<10	730	730	730,000	NSA
Copper	<20	<20	<20	<20	<20	22	<20	<10	<20	<20	<20	<20	<20	<10	<20	<20	<20	<20	1,500	1,000	1,000,000	NSA
Iron	280	26,000	350	7,300	8,800	230	110,000	112,000	5,000	<100	<100 L	200	15,000	15,100	3,000	140,000	<100	<100	11,000	NSA	NSA	300
Lead	<5	<5	<5	<5	<5	6	<5	<10	<5	<5	<5	<5	<5	<10	<5	<5	<5	<5	NSA	5	5,000	NSA
Magnesium	7,500	9,900	5,500	5,400	7,100	19,000	47,000	44,000	<1,000	12,000	19,000	8,000	6,900	6,770	17,000	92,000	11,000	18,000	NSA	NSA	NSA	NSA
Manganese	1,500	1,000	2,000	490	1,500	13,000	7,300	7,640	500	2,700	1,300	170	7,900	8,170	2,100	8,300	730	<15	730	NSA	NSA	50
Nickel	24	<20	29	<20	27	540	550	528	<20	42	<20	<20	<20	5 J	60	120	34	<20	730	100	100,000	NSA
Potassium	2,500	3,500	3,600	3,400	10,000	8,600	11,000	10,600	8,400	5,700	10,000	1,900	12,000	11,500	14,000	20,000	1,800	3,000	NSA	NSA	NSA	NSA
Selenium	<20	<20	<20	<20	<20	<20	<20	6 J	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	180	50	50,000	NSA
Sodium	87,000	17,000	89,000	8,400	390,000	530,000	120,000	137,000	220,000	37,000	59,000	6,300	22,000	24,100	55,000	140,000	25,000	9,500	NSA	NSA	NSA	NSA
Thallium	<10	<10	<10	<10	<10	<10	<10	20 J	<10	<10	<10	<10	<10	10 J	<10	<10	<10	<10	2.6	2	2,000	NSA
Vanadium	<10	<10	<10	<10	<10	<10	170	170	<10	<10	<10	<10	<10	<20	<10	<10	<10	<10	37	260	260,000	NSA
Zinc	<20	60	<20	<20	<20	75	26	32	<20	59	35	36	21	24	43	280	<20	25	11,000	2,000	2,000,000	5,000
pH:	6.1	5.5	6.3	6.7	6.9	6.9	5.87	NA	7.2	5.8	5.9	6.2	6.14	NA	7.18	6.28	5.98	6.71	---	---	---	6.5 - 8.5

Notes:

(1) - Samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Target Analyte List (TAL) Metals, and pH. Only analytes with concentrations above their laboratory detection limits are presented.

(2) - All results are in micrograms per liter.

(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium Specific Concentrations (November 2001).

(6) - Analysis was completed for total chromium. Results are compared to the most prevalent isomer, Chromium III.

* - EPA split samples

** - Background Samples

EPA - Environmental Protection Agency.

RBC - Risk Based Concentration EPA Region III Oct. 8, 2004

PADEP - Pennsylvania Department of Environmental Protection

RUA - Residential Used Aquifer

RNUA - Residential Non-Use Aquifer

MSC - Medium-Specific Concentration

SMCL - PADEP Secondary Contaminant Level

<10 - Compound was not detected above the detection limit shown

Underline - Compound was detected above its EPA RBC

Bold - Compound was detected above its PADEP MSC, or SMCL

NA - Not analyzed

ND - No analytes within this compound group were detected above their respective laboratory detection limits.

NSA - No standard available

J - Estimated concentration below laboratory reporting limit

B - Analyte also present in the method blank

Y - Probably 3-methylphenol or a mixture of 3- and 4-methylphenol

TABLE 31

SUMMARY OF ACT 2 PLUS ANALYTICIAL RESULTS FOR GRAB GROUND WATER SAMPLES
JANUARY 2004

ANALYTICAL PARAMETERS[1]	SAMPLE DESIGNATION/ANALYTICAL RESULTS[2]			EPA RBC TAP WATER	PADEP RUA MSC[3]	PADEP RNUA MSC[3]	PADEP SMCL
	GG-1	GG-2	GG-3				
Volatile Organic Compounds:							
Acetone	11	3 J	19	5,500	3,700	37,000	NSA
Benzene	<1	<1	6	0.34	5	500	NSA
Carbon Disulfide	0.4 J	<1	<2	1000	1,900	1,900	NSA
Chlorobenzene	<1	<1	3	110	100	10,000	NSA
Chloroform	1 J	<1	<2	0.15	100	1,000	NSA
Dichloroethane, 1,1-	<1	<1	51	800	27	270	NSA
Dichloroethylene, 1,1-	<1	<1	1 J	350	7	70	NSA
Dichloroethylene,cis-1,2-	<1	0.5 J	3	61	70	700	NSA
Dichloromethane, (Methylene Chloride)	<1	<1	2 J	4.1	5	500	NSA
Dichloropropane, 1,2-	<1	<1	2 J	0.16	5	50	NSA
Ethylbenzene	<1	<1	65	1,300	700	70,000	NSA
Tetrachloroethylene (PCE)	<1	0.4 J	2 J	0.10	5	50	NSA
Toluene	<1	<1	0.8 J	750	1,000	100,000	NSA
Trichloroethylene (TCE)	<1	<1	2	0.026	5	50	NSA
Vinyl Chloride	<1	<1	0.8 J	0.015	2	20	NSA
Xylenes (Total)	<1	<1	66	210	10,000	180,000	NSA
Semivolatile Organic Compounds:							
Benzo(a)anthracene	0.21	<0.2	<0.2	0.092	0.9	11	NSA
Bis(2-Chloroethyl) ether	<10	<10	7 J	0.0096	0.13	0.55	NSA
Bis-(2-Ethylhexyl)phthalate	<10	2 J	<10	4.8	6	290	NSA
Chrysene	0.24	<0.2	<0.2	9.2	1.9	1.9	NSA
Dichlorobenzene,1,2-	<10	<10	470 D	270	600	60,000	NSA
Dichlorobenzene,1,3-	<10	<10	7 J	18	600	600	NSA
Dichlorobenzene,1,4-(P-)	<10	<10	33	0.47	75	7,500	NSA
Dimethylphenol,2,4-	<10	<10	21	730	730	730,000	NSA
Fluoranthene	0.33	<0.2	<0.2	1,500	260	260	NSA
Naphthalene	0.9	<0.2	1.2	6.5	100	30,000	NSA
Nitrophenol,2-	<10	<10	2 J	NSA	290	820	NSA
Nitrophenol,4-	<25	<24	4 J	NSA	60	60	NSA
Phenanthrene	<0.2	<0.2	0.32	NSA	1,100	1,100	NSA
Pyrene	0.56	<0.2	<0.2	180	130	130	NSA
Trichlorobenzene,1,2,4-	<10	<10	2 J	7.2	70	70	NSA
PCBs:							
Aroclor - 1260	0.5	NA	NA	0.033	1.1	1.1	NSA
Inorganic Compounds:							
Aluminum	<200	<200	15,000	37,000	NSA	NSA	200
Calcium	25,000	14,000	20,000	NSA	NSA	NSA	NSA
Cobalt	<10	<10	45	730	730	730,000	NSA
Copper	<20	<20	38	1,500	1,000	1,000,000	NSA
Iron	<100	<100	36,000	11,000	NSA	NSA	300
Lead	<5	<5	10	NSA	5	5,000	NSA
Magnesium	5,300	3,900	15,000	NSA	NSA	NSA	NSA
Manganese	150	960	6,100	730	NSA	NSA	50
Mercury	<0.5	<0.5[4]	2.6	NSA	2	2,000	NSA
Nickel	<20	<20	73	730	100	100,000	NSA
Potassium	7,000	6,900	34,000	NSA	NSA	NSA	NSA
Sodium	23,000	150,000	94,000	NSA	NSA	NSA	NSA
Zinc	<20	<20	2,000	11,000	2,000	2,000,000	5,000
pH:	8.1	7.3	8.1	---	---	---	6.5 - 8.5

Notes:

(1) - Samples were analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs), TCL Semivolatile Organic Compounds (SVOCs), Polychlorinated Biphenyls (PCBs), Target Analyte List (TAL) Metals, and pH. Only analytes with concentrations above their laboratory detection limits are presented.

(2) - All results are in micrograms per liter.

(3) - Pennsylvania Department of Environmental Protection, Land Recycling and Environmental Remediation Standards Act, Residential Medium Specific Concentrations (November 2001).

(4) - Originally reported by lab as 1.5 micrograms per liter, but was corrected to <0.5 in report # F-32-1-11612

EPA - Environmental Protection Agency

RBC - Risk Based Concentration EPA Region III Oct. 8, 2004

PADEP - Pennsylvania Department of Environmental Protection

RUA - Residential Used Aquifer

RNUA - Residential Non-Use Aquifer

MSC - Medium-Specific Concentration

SMCL - PADEP Secondary Contaminant Level

<10 - Compound was not detected above the detection limit shown

Underline - Compound was detected above its EPA RBC

Bold - Compound was detected above its PADEP MSC, or SMCL

NA - Not analyzed

NSA - No standard available

J - estimated value.

D - Result was obtained from a different dilution than other analytes.

REV.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

Penn E&R
Environmental & Remediation, Inc.
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DWG FILE: HA5220
DESIGNED BY: JW
DRAWN BY: MTH
CHKD BY: JW
DATE: OCT. 3, 2008
DRAWING SCALE: AS SHOWN
FIGURE NO.:
SHEET NO.: 3 OF 3

Exhibit D
Uniform Environmental Covenant Act (UECA)
Ground Water Analytical Results Summary
BRLP/Waterside Site
2375 State Road, Bensalem, Bucks County, PA.