New Jersey Department of Environmental Protection
Site Remediation Program

REMEDIAL ACTION PERMIT APPLICATION – GROUND WATER

Date Stamp
(For Department use only)

SECTION A. SITE NAME AND LOCATION

Site Name: Hess Port Reading Refinery- AOC 2- The South Landfarm

List All AKAs:

Street Address: 750 Cliff Road

Municipality: Woodbridge Twp. (Township Borough or City)

County: Middlesex Zip Code: 07064

Program Interest (PI) Number(s): 006148 Case Tracking Number(s):

SECTION B. PERMIT TYPE AND FEES

- ☒ Natural Attenuation Permit Application $800.00
- ☐ Natural Attenuation Permit Modification.....$600.00
- ☐ Natural Attenuation Permit Termination.....$800.00
- ☐ Active System Permit Application $1,000.00
- ☐ Active System Permit Modification.....$800.00
- ☐ Active System Permit Termination $1,000.00

Fee Billing Contact:

Business Name: Hess Corporation Phone: (732) 750-6934

Contact: John Engdahl Title: Senior Specialist

Street Address: One Hess Plaza

City: Woodbridge State: NJ Zip Code: 07095

SECTION C. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION – CO-PERMITTEE

Affiliation/Name of Organization: Hess Corporation

First Name of Contact: John Last Name of Contact: Engdahl

Title: Senior Specialist

Phone Number: (732) 750-6934 Ext: Fax: (732) 750-6105

Mailing Address: One Hess Plaza

City/Town: Woodbridge State: NJ Zip Code: 07095

Email Address: JEngdahl@Hess.com

☒ Primary Responsibility for Permit Compliance

SECTION D. CURRENT OWNER OF THE SITE – CO-PERMITTEE

Affiliation/Name of Organization: Hess Corporation

First Name of Contact: John Last Name of Contact: Engdahl

Title: Senior Specialist

Phone Number: (732) 750-6934 Ext: Fax: (732) 750-6105

Mailing Address: One Hess Plaza

City/Town: Woodbridge State: NJ Zip Code: 07095

Email Address: JEngdahl@Hess.com

☐ Primary Responsibility for Permit Compliance

SECTION E. CLASSIFICATION EXCEPTION AREA (CEA) INFORMATION (N.J.A.C. 7:26E-8.3)

☐ Not Applicable (No change to a previously established CEA)

1. Attach the following:
   - ☒ CEA Fact Sheet (with exhibits)
   - ☒ CEA Map (both in paper, PDF and GIS compatible format)
   - ☐ Fate and Transport Description and Model
   - ☒ A summary table of the ground water monitoring results
2. What is the aerial extent of the proposed CEA? Entire AOC extending S-SE (acres)
3. Does the ground water plume extend off-site? ☐ Yes ☒ No
4. What is the vertical depth of contamination? 17 (feet)
5. What is the name of the impacted aquifer? Historic Fill and Salt Marsh deposits
6. What is the direction of ground water flow? South-Southeast
7. What is the duration of the proposed CEA? 30 (years)
8. Are the Public Notification per the Technical Requirements for Site Remediation (N.J.A.C. 7:26E-8.3(b)5) completed? ☒ Yes ☐ No
9. Block(s): 760.02 & 760.01 Lot(s): 2 & 6; 2

SECTION F. MONITORING, MAINTENANCE AND EVALUATION INFORMATION (N.J.A.C. 7:26E-6.2(a)18)

1. Type of Remediation
   a. ☒ Natural Attenuation
      1) Has all soil contamination in the unsaturated zone been remediated to the applicable numeric soil remediation standard for all area(s) of concern associated with this CEA? ☐ Yes ☒ No
      2) Has all free and/or residual product in the unsaturated and saturated zones, as determined pursuant to N.J.A.C. 7:26E-2.1(a)14, been treated or removed? NA
   b. ☐ Active Remediation
      - ☐ Treatment – Type: _____
      - ☐ Hydraulic Control
      1) Is there a decreasing trend of contaminant concentrations in the ground water? ☒ Yes ☐ No
      2) Is the ground water plume **NOT** migrating horizontally or vertically into an uncontaminated aquifer zone below and adjacent to the contaminant plume? ☐ Yes ☐ No
      3) Is the ground water plume contained and **NOT** reaching the sentinel wells? ☒ Yes ☐ No
      4) Is the ground water remedial action performing as designed? ☒ Yes ☐ No
2. Are the following attached?
   a. Is a copy (PDF) of the applicable Remedial Action Report describing the remedial action requiring the Monitoring, Maintenance and Evaluation plan for the remediation (N.J.A.C. 7:26E-6.2(a)18) attached? ☐ Yes ☒ No
   b. Is the Monitoring, Maintenance and Evaluation plan consistent with N.J.A.C. 7:26E-6.2(a)18, 6.3(e) or 6.3(f)? ☐ Yes ☒ No
   c. Complete the summary of the proposed Monitoring and Reporting schedule

Check **Monitoring Schedule** you plan to apply		Check **Reporting Schedule** you plan to apply	
☐ Monthly	☐ Annual	☐ Monthly	☒ Annual
☐ Quarterly	☐ Biennial	☐ Quarterly	☐ Biennial
☒ Semi Annual	☐ Other: _____	☐ Semi Annual	☐ Other: _____

   d. Attach the GW Monitoring Plan Spreadsheet.
   e. Attach a scaled map indicating the locations of the proposed sampling points.

SECTION G. ENGINEERING CONTROL AND FINANCIAL ASSURANCE

1. Does the ground water remediation require an engineering control? ☐ Yes ☒ No

   If "No," posting of financial assurance is not required. Go to Section H.

   If "Yes," complete this section.

2. Are any of the entities identified in Section C or D exempt from establishing financial assurance pursuant to N.J.A.C. 7:26C-7.7(b)? ☐ Yes ☒ No

   Check the exemption that applies:

Person Responsible for Conducting the Remediation – Co-Permittee	Owner of the Site – Co-Permittee	
☐	☐	Government entity
☐	☐	A person not liable pursuant to the Spill Act that purchased contaminated property before May 7, 2009
☐	☐	A person that conducted remediation at their primary or secondary residence
☐	☐	Owner or operator of a child care center
☐	☐	Public school or private school
☐	☐	Owner or operator of a small business responsible for conducting remediation at the location of the business

3. Is the current owner of the site either a homeowner association or a condominium association pursuant to the New Jersey Common Interest Association Act, N.J.S.A. 46:8A-1 et seq.? ☐ Yes ☐ No

   If "Yes," and the association is identified in Section C and D of this Permit Application, attach a copy of the association's annual budget that includes funds for monitoring and maintenance of the engineering control.

4. Identify the estimated cost of maintaining the engineering controls at the site: $_____

5. Is the estimate attached? ☐ Yes ☐ No

6. What is the Financial Assurance instrument? (check all that apply)

   ☐ Environmental Insurance Policy ☐ Line of Credit
   ☐ Remediation Trust Fund ☐ Letter of Credit

7. Identify the full amount established as a financial assurance: $_____

8. Contact information at the financial institution for the financial assurance:

Name: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Email Address: _____

Phone Number: _____ Ext: _____ Fax: _____

9. Is the original financial assurance instrument attached? ☐ Yes ☐ No

SECTION H. PROPERTY USE (for overlying CEA)

1. **Current Site Use** (check all that apply)

   ☒ Industrial ☐ Commercial ☐ School or Child Care Facility ☐ Park or Recreational Use
   ☐ Residential ☐ Governmental ☐ Agricultural ☐ Vacant
   ☐ Other _____

2. **Off-site Land Use** (check all that apply for Blocks/Lots included in the areal extent of the CEA)

   ☒ Industrial ☐ Park or Recreational Use ☐ School ☐ Vacant
   ☐ Residential ☐ Agricultural ☐ Child Care Center ☐ Occupied
   ☐ Commercial ☐ Road/Right of Way ☐ Hospital
   ☐ Government Facility ☐ Other _____

SECTION I. RECEPTOR EVALUATION SUMMARY

1. Have any of the following been identified within 200 feet of the AOC boundary?
   Check all that apply.

   ☐ Residences
   ☐ Potable wells
   ☐ Public and private schools (K-12)
   ☐ Child care facilities
   ☐ Public parks and playgrounds
   ☒ Surface water
   ☐ Tier 1 Well-head protection areas

2. Have any of these receptors been impacted? ..... ☐ Yes ☒ No

   If "Yes," date of Receptor Control: _____ Date of IEC Contaminant Source Control: _____

SECTION J. OTHER REMEDIATION PERMITS

Are other Remediation Permits also being applied for or already obtained? ..... ☒ Yes ☐ No

If "Yes," please list the Permit Type, Permit Number and Effective Date for other remediation permits.

Remedial Action Permit - Soil- Pending

SECTION K. OTHER INFORMATION PROVIDED

If there is other information, please list.

SECTION L. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: Hess Corporation

Representative First Name: John Representative Last Name: Engdahl

Title: Senior Specialist

Phone Number: (732) 750-6934 Ext: _____ Fax: (732) 750-6105

Mailing Address: One Hess Plaza

City/Town: Woodbridge State: NJ Zip Code: 07095

Email Address: JEngdahl@Hess.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____ Date: _____

Name/Title: John J. Engdahl/ Senior Specialist **No Changes Since Last Submittal** ☐

SECTION M. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 581780

First Name: David Last Name: Carlson

Phone Number: (609) 387-5553 Ext: Fax: (609) 387-5533

Mailing Address: 3 Terri Ln, Suit #8

City/Town: Burlington State: NJ Zip Code: 08016

Email Address: davec@envirotrac.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date:

LSRP Name/Title: David J. Carlson/ Senior Project Manager **No Changes Since Last Submittal** ☐

Company Name: EnviroTrac Ltd.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

Ground Water Monitoring Plan for Ground Water Remedial Action Permit (version 1.0; May 17, 2012)

INSTRUCTIONS

RESET DATA

PRINT

Case Name: P001 Hess Port Reading Refinery- AOC 2
Program Interest (PI) ID #: 006148
Spreadsheet Submission Date:

Wells to Be Sampled	Type of Well	Easting	Northing	Sampling Schedule	Reporting Schedule	Parameters for Each Well	CASRN
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	BTEX	NA
LS-2	Plume fringe	562538	629738	Semi-annually	Other	BTEX	NA
LS-3	Plume fringe	562440	629760	Semi-annually	Other	BTEX	NA
LS-4	Plume fringe	562351	629822	Semi-annually	Other	BTEX	NA
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	tertiary-Butyl alcohol (TBA)	75-65-0
LS-2	Plume fringe	562538	629738	Semi-annually	Other	tertiary-Butyl alcohol (TBA)	75-65-0
LS-3	Plume	562440	629760	Semi-annually	Other	tertiary-Butyl alcohol (TBA)	75-65-0
LS-4	Plume fringe	562351	629822	Semi-annually	Other	tertiary-Butyl alcohol (TBA)	75-65-0
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Methyl tertiary butyl ether (MTBE)	1634-04-4
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Methyl tertiary butyl ether (MTBE)	1634-04-4
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Methyl tertiary butyl ether (MTBE)	1634-04-4
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Methyl tertiary butyl ether (MTBE)	1634-04-4
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	TDS (Total dissolved solids)	-
LS-2	Plume fringe	562538	629738	Semi-annually	Other	TDS (Total dissolved solids)	-
LS-3	Plume fringe	562440	629760	Semi-annually	Other	TDS (Total dissolved solids)	-
LS-4	Plume fringe	562351	629822	Semi-annually	Other	TDS (Total dissolved solids)	-
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Ammonia (Total)	7664-41-7
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Ammonia (Total)	7664-41-7
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Ammonia (Total)	7664-41-7
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Ammonia (Total)	7664-41-7
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Chloride	16887-00-6
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Chloride	16887-00-6

Ground Water Monitoring Plan for Ground Water Remedial Action Permit (version 1.0; May 17, 2012)

INSTRUCTIONS

RESET DATA

PRINT

Case Name: P001 Hess Port Reading Refinery- AOC 2
Program Interest (PI) ID #: 006148
Spreadsheet Submission Date:

Wells to Be Sampled	Type of Well	Easting	Northing	Sampling Schedule	Reporting Schedule	Parameters for Each Well	CASRN
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Chloride	16887-00-6
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Chloride	16887-00-6
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Sulfate	14808-79-8
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Sulfate	14808-79-8
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Sulfate	14808-79-8
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Sulfate	14808-79-8
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	pH	-
LS-2	Plume fringe	562538	629738	Semi-annually	Other	pH	-
LS-3	Plume fringe	562440	629760	Semi-annually	Other	pH	-
LS-4	Plume fringe	562351	629822	Semi-annually	Other	pH	-
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Arsenic (Total)	7440-38-2
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Arsenic (Total)	7440-38-2
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Arsenic (Total)	7440-38-2
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Arsenic (Total)	7440-38-2
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Iron	7439-89-6
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Iron	7439-89-6
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Iron	7439-89-6
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Iron	7439-89-6
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Manganese	7439-96-5
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Manganese	7439-96-5
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Manganese	7439-96-5

Ground Water Monitoring Plan for Ground Water Remedial Action Permit (version 1.0; May 17, 2012)

INSTRUCTIONS

RESET DATA

PRINT

Case Name: P001 Hess Port Reading Refinery- AOC 2
Program Interest (PI) ID #: 006148
Spreadsheet Submission Date:

Wells to Be Sampled	Type of Well	Easting	Northing	Sampling Schedule	Reporting Schedule	Parameters for Each Well	CASRN
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Manganese	7439-96-5
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Sodium	7440-23-5
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Sodium	7440-23-5
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Sodium	7440-23-5
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Sodium	7440-23-5
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Barium	7440-39-3
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Barium	7440-39-3
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Barium	7440-39-3
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Barium	7440-39-3
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Cadmium	7440-43-9
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Cadmium	7440-43-9
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Cadmium	7440-43-9
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Cadmium	7440-43-9
LS-1R	Plume fringe	562405	630035	Semi-annually	Other	Lead (Total)	7439-92-1
LS-2	Plume fringe	562538	629738	Semi-annually	Other	Lead (Total)	7439-92-1
LS-3	Plume fringe	562440	629760	Semi-annually	Other	Lead (Total)	7439-92-1
LS-4	Plume fringe	562351	629822	Semi-annually	Other	Lead (Total)	7439-92-1

South Landfarm Well Construction Summary
Hess Corporation - Port Reading Refinery
750 Cliff Road
Port Reading, Middlesex County, New Jersey

Well #	LS-1R	LS-2	LS-3	LS-4	PL-1R	PL-3R	PL-6R	PL-9R
Well Permit	2600025324	2600007593	2600007594	2600007595	E201207876	P200800555	P200800557	P200800559
Total Depth (Drilled)	14	10	12	12	18	20	20	20
Well Diameter (inches)	4	4	4	4	4	4	4	4
Top of Casing Elevation	14.49	11.69	8.30	11.25	11.82	12.27	11.49	11.26
Ground Elevation	12.70	9.57	11.16	8.96	IU	IU	IU	IU
Well Screen	4-14	5.3-10.3	6-12	5-12	1-18	1-20	1-20	1-19

Notes:
1) Unless otherwise designated, all measurments in feet.
2) IU - Information Unknown

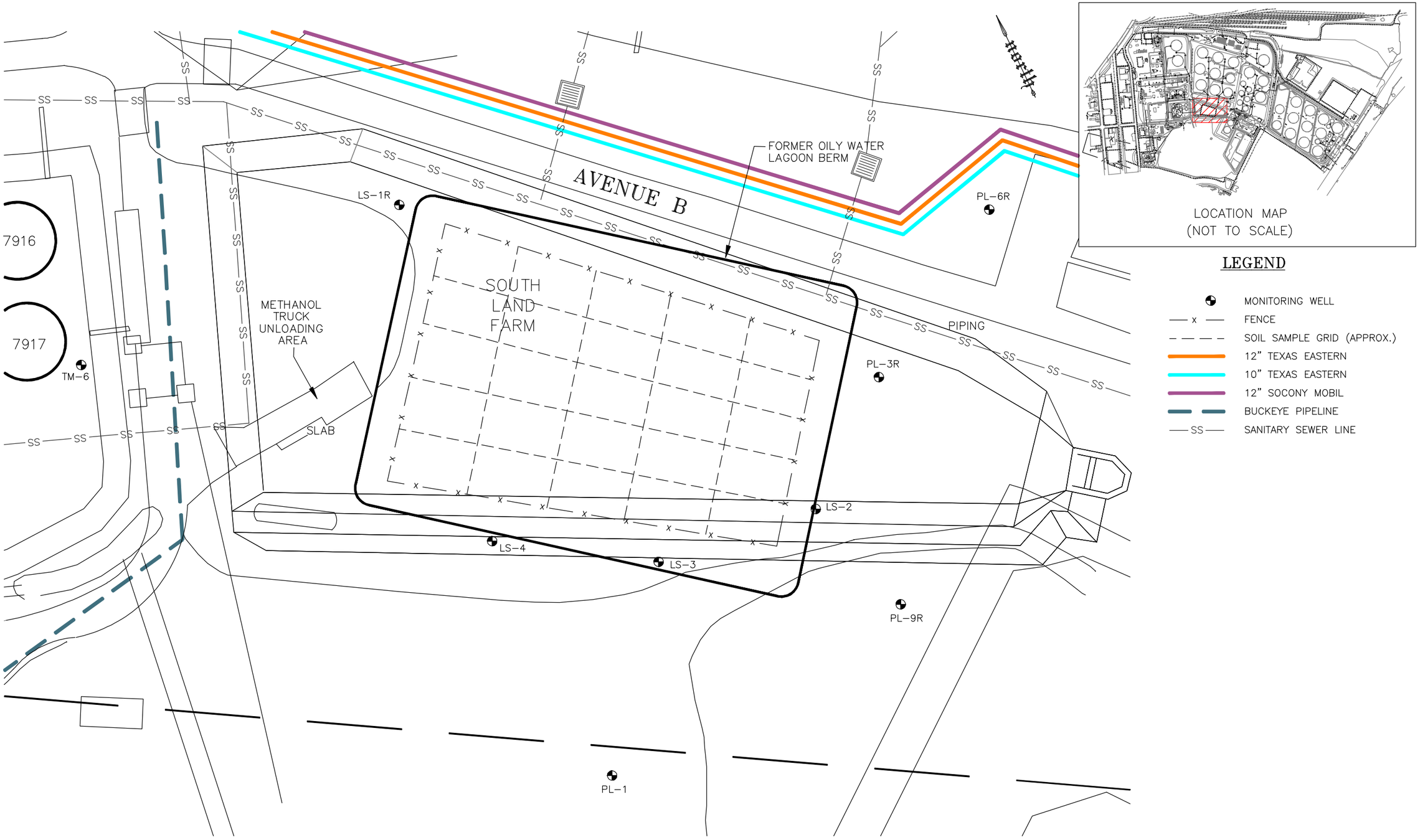


FIGURE #

HESS CORPORATION
750 CLIFF ROAD
PORT READING, NEW JERSEY

Groundwater Sample Location Points

DRAWN BY: B.S.

REVISION DATE: 12/5/11

0 60
SCALE IN FEET

EnviroTrac
ENVIRONMENTAL SERVICES
400E CORPORATE COURT, So. PLAINFIELD NJ 07080
PHONE: (908)757-1900 FAX: (908)757-0017

New Jersey Department of Environmental Protection
Site Remediation Program

CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION AREA (CEA/WRA) PERMIT FACT SHEET FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Hess Corporation- Port Reading Refinery- AOC 2- the South Landfarm

Program Interest (PI) Number(s): 006148 Case Tracking Number(s):

New CEA ☒ Revised CEA ☐ Type of Remedial Action (RA): Natural ☒ Active ☐ RA not yet selected ☐

SECTION B. CEA Component Information

1. **Contaminant(s):** This CEA/WRA applies only to the contaminants above the applicable numeric values established by Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C, listed in the table below. List below the maximum value for all contaminants included in Exhibit A using any well or sampling point used to establish the CEA.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	GWSL(4)
Benzene	131	1	3.3	1

Notes:
(1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion Ground Water Screening Levels available at http://www.nj.gov/dep/srp/guidance/vaporintrusion/

☐ Check if attaching an Addendum to list additional contaminants and associated information.

☒ **Exhibit A: Monitor Well/Sampling Point Data** – Per N.J.A.C 7:26E-8.3(b) submit a copy of a table that includes the most recent 24 months of ground water sampling.

2. **CEA Boundaries:**
Lot(s) and Block(s) included in the areal extent of the Classification Exception Area:

Year of tax map used: 2008 For CEA revisions, check here if Block and Lot numbers have changed: ☐

Block(s)	Lot(s)	Check if off-site	Block(s)	Lot(s)	Check if off-site
760.02	2	☐			☐
760.02	6	☐			☐
		☐			☐
		☐			☐
		☐			☐

☐ Check if attaching an Addendum to list additional Blocks/Lots and associated information.

☒ **Exhibit B: Site Location Maps** – USGS Quadrangle Map and Tax Lot and Block Map (N.J.A.C. 7:26E-8.3(b)3i and ii)

☒ **Exhibit C: Site Map(s) and Cross Section** – Including actual/predicted contaminant isopleths, ground water flow direction, CEA boundary, monitor well/sampling point/boring locations/IDs, area(s) of concern. See N.J.A.C 7:26E-8.3(b)3iii through v and instructions regarding maps, the cross section and applicable GIS deliverable requirements.

Narrative description of proposed CEA:

Encompasses AOC-2 the South Landfarm, extending south and southwest to the Detention Basin,

Name(s) of the affected Geologic Formation(s)/Unit(s): Historic Fill and Salt Marsh deposits

Direction of ground water flow: South Southwest

(See instructions. If multiple water bearing zones/predominate flow directions exist within the CEA, leave above blank.)

Ground Water Classification: II-A

Vertical Depth of CEA (ft bgs and msl)	Horizontal Extent of CEA (acres or square ft)
17 ft bgs; -4.30 msl	

☒ **Exhibit D (**CEA/WRA Spreadsheet)**: Vertical Contaminant Depth Data and GIS Deliverable for Cross Section** – A spreadsheet, for the most recent 24 months of data, for each sampling point used to establish the CEA, or the subset of wells indicated in N.J.A.C 7:26E-8.3(b)3iii, iv and v, that includes the depth in feet bgs and msl elevation to: the water table; the approximate maximum depth of contamination; and the thickness of any clean water lens, if one had been identified during the Remedial Investigation. See instructions for this form and spreadsheet for more details.

Exhibit E: Fate and Transport Description and Model Documentation

☒ Historic Fill exemption

☒ All information required pursuant to N.J.A.C. 7:26E-8.3(b)2 and applicable guidance is included.

3. Projected Term of CEA: Based on modeling/calculations in Exhibit E

Proposed Duration in Years: Indeterminate

SECTION C. CURRENT AND PROJECTED GROUND WATER USE DOCUMENTATION

☒ **Exhibit F: Well Search Results** – Include most recent well search per N.J.A.C. 7:26E-1.17.

Check each item where, pursuant to N.J.A.C. 7:26E-8.3(b)4, written documentation was obtained regarding future ground water use, in the aquifer(s) in which the CEA is located, for a 25-year planning horizon based on:

☒ Municipal master plans

☐ Zoning plans

☒ Local water purveyor plans and planning data pertaining to the existence of water lines and proposed future installation of water lines

☒ Local planning officials

☒ County and local boards of health

☐ Local and/or county ordinances restricting installation of potable wells

SECTION D. WELL RESTRICTION INFORMATION

For Class II-A ground water and pursuant to the GWQS at N.J.A.C. 7:9C-1.6(d), where ground water quality data indicate contaminants exceed the values listed in the Primary Drinking Water Regulations, the Department shall restrict, or require the restriction of, potable ground water uses within any CEA. Therefore, the CEA established for this site is also a Well Restriction Area, the extent of which coincides with the boundaries of the CEA.
Well Restrictions set within the boundaries of the CEA:

☒ Double Case Wells

☒ Sample Potable Wells

☒ Evaluate Production Wells

☐ Other

SECTION E. PUBLIC NOTIFICATION REQUIREMENTS

See instructions regarding N.J.A.C. 7:26E-8.3(b)5vi, otherwise notify the NJDEP that letters were sent per N.J.A.C. 7:26E-8.3(b)5 by checking all applicable entities:

- ☒ Municipal and county clerk(s)
- ☒ Local, county or regional health department(s)
- ☒ Designated County Environmental Health Act agency (if applicable)
- ☒ County Planning Board
- ☐ Pinelands Commission (if applicable)
- ☐ Owners of real property overlying CEA foot print

List of Names and Addresses – Include all persons notified pursuant to N.J.A.C. 7:26E-8.3(b) based on the proposed CEA extent. See instructions regarding last column. Check here if no volatile contaminants in CEA: ☒.

Property Owner Name	Notification Address Used	Date notification sent	Property was evaluated for vapor impacts ☒ if "Yes"
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐
			☐

SECTION F. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT

LSRP ID Number: 581780

First Name: David Last Name: Carlson

Phone Number: (609) 387-5553 Ext: Fax: (609) 387-5533

Mailing Address: 3 Terri Ln, Suite #8

City/Town: Burlington State: NJ Zip Code: 08016

Email Address: davec@envirotrac.com

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRA Section 16 d. and Section 30 b.2.

[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:

☐ *directly oversaw and supervised all of the referenced remediation, and\or*

☒ *personally reviewed and accepted all of the referenced remediation presented herein.*

I believe that the information contained herein, and including all attached documents, is true, accurate and complete.

It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.

My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.

I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.

LSRP Signature: Date:

LSRP Name/Title: David J. Carlson/ Senior Project Manager **No Changes Since Last Submittal** ☐

Company Name: EnviroTrac Ltd

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420

ADDENDUM
Classification Exception Area / Well Restriction Area
Permit Fact Sheet Form

Section B. CEA Component Information

1. **Contaminant(s):** This CEA/WRA applies only to the contaminants above the applicable numeric values established by Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C, listed in the table below. List below the maximum value for all contaminants included in Exhibit A using any well or sampling point used to establish the CEA.

Contaminant	Concentration [1]	GWQS [2]	SWQS[3]	GWSL[4]

Notes:
[1] Maximum concentration in Micrograms Per Liter
[2] New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C
[3] Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
[4] Current NJDEP Vapor Intrusion Ground Water Screening Levels

2. **CEA Boundaries:**
Lot(s) and Block(s) included in the areal extent of the Classification Exception Area:

Year of tax map used: _____ For CEA revisions, check here if Block and Lot numbers have changed: ☐

Block(s)	Lot(s)	Check if off-site	Block(s)	Lot(s)	Check if off-site
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐

Exhibit A
South Landfarm Sampling Summary - Wet Chemistry
Hess Port Reading Refinery
750 Cliff Road
Port Reading, Middlesex County, New Jersey

General Chemistry														
Sample ID	**Date**	**Fluoride**	**Nitrogen, Nitrate + Nitrite**	**Nitrogen, Nitrate**	**Nitrogen, Nitrite**	**Phenols**	**Solids, Total Dissolved**	**Total Organic Halides**	**Specific Conductivity**	**Total Organic Carbon**	**Nitrogen, Ammonia**	**Chloride**	**pH[1]**	**Sulfate**
NJDEP GWQS		**2**	**10**	**10**	**1**	**2**	**500**	**NA**	**NA**	**NA**	**3**	**250**	**6.5-8.5**	**250**
LS-1R	1/18/2005	0.56	<0.10	<0.11	<0.010	NS	**611**	<0.10	NM	20.6	0.46	135	NM	<20
	4/25/2005	0.7	<0.10	<0.11	<0.010	NS	**531**	<0.20	NM	14.8	1.4	123	NM	<10
	10/7/2005	0.78	<0.10	<0.11	<0.010	NS	475	<0.10	NM	14.8	**3.4**	114	NM	<20
	1/19/2006	0.72	<0.10	<0.11	<0.010	NS	**1,440**	<0.20	NM	6.1	**4.5**	**595**	NM	231
	4/26/2006	0.56	<0.10	<0.11	<0.010	NS	360	<0.10	NM	15.1	1.7	90	NM	5.2
	7/18/2006	0.64	<0.10	<0.11	<0.010	NS	494	<0.10	NM	14.5	**3.5**	103	NM	<2.0
	10/19/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NM	NS
	1/24/2007	0.74	0.13	0.13	<0.010	<0.20	**493**	<0.050	NM	20.3	**2.7**	**108**	NM	<10
	4/18/2007	0.81	0.13	0.13	<0.010	<0.20	**1,080**	<0.20	NM	6.8	**4.1**	**368**	NM	**292**
	7/20/2007	0.79	<0.10	<0.11	<0.010	<0.20	379	<0.050	NM	15.2	2.8	86	NM	<10
	10/26/2007	0.82	<0.10	<0.11	<0.010	<0.20	469	<0.050	NM	17.4	**3.7**	94	NM	<10
	1/25/2008	0.74	<0.10	<0.11	<0.010	<0.20	498	<0.050	NM	14.8	2.8	111	NM	<10
	4/15/2008	0.79	1.1	1.1	<0.010	<0.20	**529**	0.2	NM	24.8	1.9	120	NM	<10
	7/25/2008	0.88	<0.10	<0.11	<0.010	<0.20	451	<0.050	NM	21.9	2.9	104	NM	<10
	10/14/2008	0.93	0.14	0.14	<0.010	<0.20	480	<0.050	NM	16	2.5	124	NM	<10
	1/19/2009	0.66	<0.10	<0.11	<0.010	<0.20	**543**	<0.050	NM	17.1	2.8	144	NM	<10
	4/27/2009	0.71	<0.10	<0.11	<0.010	<0.20	496	<0.10	NM	17.3	2.6	144	NM	<10
	7/31/2009	0.86	<0.10	<0.11	<0.010	<0.20	422	<0.050	NM	18	2.9	114	NM	<10
	10/27/2009	0.89	<0.10	<0.11	<0.010	<0.20	**552**	<0.050	NM	16.8	2.2	135	NM	<10
	1/27/2010	0.78	<0.10	<0.11	<0.010	<0.20	**538**	<0.10	NM	16.7	2.6	137	NM	<10
	4/5/2010	0.83	0.16	0.16	<0.010	<0.20	**590**	<0.10	NM	14.7	2	138	NM	<10
	7/21/2010	0.99	<0.10	<0.11	<0.010	<0.20	**628**	<0.050	NM	18.9	1.7	147	NM	<10
	10/25/2010	0.88	<0.10	<0.11	<0.010	<0.20	**574**	<0.20	NM	16.1	2.8	134	NM	<10
	1/19/2011	0.56	<0.10	<0.11	<0.010	<0.20	**901**	<0.10	NM	19.1	2.8	**286**	NM	<10
	4/20/2011	0.67	<0.10	<0.11	<0.010	<0.20	**612**	<0.050	NM	18.7	1.9	137	NM	<10
	7/20/2011	0.73	<0.10	<0.11	<0.010	<0.20	**634**	<0.10	NM	18.8	2.2	154	NM	<10
	10/21/2011	0.71	<0.10	<0.11	<0.010	<0.20	**704**	<0.20	NM	16.4	1.7	162	NM	<10
	1/19/2012	0.80	<0.10	<0.11	<0.010	<0.20	**592**	<0.10	NM	15.6	2.2	147	NM	<10
	4/25/2012	0.76	<0.10	<0.11	<0.010	<0.20	**460**	<0.050	NM	13.6	1.8	108	NM	<10
	7/26/2012	0.78	0.37	0.34	0.03	<0.20	354	<0.10	NM	11.3	0.66	93.6	NM	<10
	10/23/2012	0.80[a]	<0.10*	<0.11	<0.010	<0.20*	420	<0.20*	905*	15.4*	2.0*	123*	6.78	6.78
	1/16/2013	0.79[a]	<0.10	<0.11[f]	<0.010	<0.20	**607**	<0.10[c]	1,060	14.3	2.0	181	6.71[g]	<10

Exhibit A
South Landfarm Sampling Summary - Wet Chemistry
Hess Port Reading Refinery
750 Cliff Road
Port Reading, Middlesex County, New Jersey

General Chemistry														
Sample ID	**Date**	**Fluoride**	**Nitrogen, Nitrate + Nitrite**	**Nitrogen, Nitrate**	**Nitrogen, Nitrite**	**Phenols**	**Solids, Total Dissolved**	**Total Organic Halides**	**Specific Conductivity**	**Total Organic Carbon**	**Nitrogen, Ammonia**	**Chloride**	**pH[1]**	**Sulfate**
NJDEP GWQS		**2**	**10**	**10**	**1**	**2**	**500**	**NA**	**NA**	**NA**	**3**	**250**	**6.5-8.5**	**250**
LS-2	1/18/2005	<0.40	0.35	0.35	<0.010	<0.20	**3,470**	<0.20	NM	62.1	1.7	**1,740**	NR	<20
	4/25/2005	0.17	<0.10	<0.11	<0.010	<0.20	**3,600**	0.21	NM	52.1	**4.1**	**1,590**	NM	<10
	10/7/2005	<0.40	<0.10	<0.11	<0.010	<0.20	**5,890**	<0.20	NM	61.8	**7.8**	**3,370**	NM	<20
	1/19/2006	0.86	<0.10	<0.11	<0.010	<0.20	260	<0.20	NM	3.5	2.4	72	NM	11.5
	4/26/2006	<1.0	<0.10	<0.11	<0.010	<0.20	**5,540**	<0.20	NM	50.7	**6**	**2,840**	NM	3.5
	7/18/2006	<0.50	<0.10	<0.11	<0.010	<0.20	**5,060**	0.31	NM	60.2	**7.1**	**2,840**	NM	2
	10/19/2006	<0.40	<0.10	<0.11	<0.010	<0.20	**5,380**	0.33	NM	62.8	**8.8**	**3,230**	NM	3.2
	1/24/2007	<0.40	<0.10	<0.11	<0.010	<0.20	**4,060**	<0.20	NM	64.9	**7.2**	**2,770**	NM	<10
	4/18/2007	<0.59	<0.10	<0.11	<0.010	<0.20	292	<0.050	NM	2.4	1.2	97	NM	<20
	7/20/2007	<0.20	<0.10	<0.11	<0.010	<0.20	**4,180**	<0.20	NM	60.6	**6.4**	**2,710**	NM	<10
	10/26/2007	<0.20	<0.10	<0.11	<0.010	<0.20	**4,830**	0.2	NM	77.2	**7**	**2,890**	NM	<10
	1/25/2008	<0.20	<0.10	<0.11	<0.010	<0.20	**3,640**	<0.20	NM	48.7	**5.5**	**2,060**	NM	67.4
	4/15/2008	<0.20	<0.10	<0.11	<0.010	<0.20	**3,270**	0.27	NM	55.7	**4.3**	**1,670**	NM	97.9
	7/25/2008	<0.20	<0.10	<0.11	<0.010	<0.20	**4,910**	<0.050	NM	62.2	**7.9**	**2,850**	NM	<10
	10/14/2008	<0.25	0.13	0.13	<0.010	<0.20	**5,230**	<0.20	NM	54.8	**7.7**	**2,770**	NM	<10
	1/19/2009	<0.20	<0.10	<0.11	<0.010	<0.20	**2,860**	<0.20	NM	53.4	**4.9**	**1,790**	NM	<10
	4/27/2009	<0.20	<0.10	<0.11	<0.010	<0.20	**2,690**	<0.20	NM	33.8	**3.7**	**1,410**	NM	<10
	7/31/2009	<0.20	<0.10	<0.11	<0.010	<0.20	**4,250**	<0.050	NM	62.3	**7.3**	**2,520**	NM	<10
	10/27/2009	<0.20	<0.10	<0.11	<0.010	<0.20	**3,810**	<0.050	NM	64.8	**7.2**	**2,440**	NM	<10
	1/27/2010	<0.20	<0.10	<0.11	<0.010	<0.20	**2,710**	0.29	NM	58.4	**4.6**	**1,500**	NM	10.1
	4/5/2010	<0.20	0.15	0.15	<0.010	<0.20	**3,900**	<0.20	NM	44.9	**4.8**	**2,000**	NM	<10
	7/21/2010	<0.20	<0.10	<0.11	<0.010	<0.20	**4,640**	<0.20	NM	57.2	**6.1**	**2,430**	NM	<10
	10/25/2010	<0.20	0.28	0.28	<0.010	<0.20	**4,520**	<0.20	NM	57.5	**7.3**	**2,610**	NM	<10
	1/19/2011	<0.20	<0.10	<0.11	<0.010	<0.20	**2,610**	0.35	NM	44.7	**4.3**	**1,530**	NM	20.3
	4/20/2011	<0.20	<0.10	<0.11	<0.010	<0.20	**2,710**	<0.10	NM	47.7	**3.4**	**1,330**	NM	**283**
	7/20/2011	<0.20	<0.10	<0.11	<0.010	<0.20	**3,970**	<0.10	NM	53.4	**5.2**	**1,940**	NM	70.2
	10/21/2011	<0.20	<0.10	<0.11	<0.010	<0.20	**4,700**	0.69	NM	52.0	**6.8**	**2,460**	NM	<10
	1/19/2012	<0.20	<0.10	<0.11	<0.010	<0.20	**4,000**	0.38	NM	56.0	**5.9**	**2,780**	NM	<10
	4/24/2012	<0.20	<0.10	<0.11	<0.010	<0.20	**3,000**	0.22	NM	39.1	**4.0**	**1,440**	NM	16.1
	7/26/2012	<0.20	<0.10	<0.11	<0.010	<0.20	**3,750**	<0.20	NM	54.7	**5.8**	**2,140**	NM	13.9
	10/23/2012	<0.20*	<0.10*	<0.11	<0.010	<0.20*	**5,450**	0.21	6,860*	65.5[a]	**6.3**	**2,480***	7.02	22.9
	1/16/2013	<0.20[a]	<0.10	<0.11[f]	<0.010	<0.20	**8,130**	<0.20[c]	9,900	45.8	**6.0**	**3,960**	6.83[g]	137

Exhibit A
South Landfarm Sampling Summary - Wet Chemistry
Hess Port Reading Refinery
750 Cliff Road
Port Reading, Middlesex County, New Jersey

General Chemistry														
Sample ID	**Date**	**Fluoride**	**Nitrogen, Nitrate + Nitrite**	**Nitrogen, Nitrate**	**Nitrogen, Nitrite**	**Phenols**	**Solids, Total Dissolved**	**Total Organic Halides**	**Specific Conductivity**	**Total Organic Carbon**	**Nitrogen, Ammonia**	**Chloride**	**pH[1]**	**Sulfate**
NJDEP GWQS		**2**	**10**	**10**	**1**	**2**	**500**	**NA**	**NA**	**NA**	**3**	**250**	**6.5-8.5**	**250**
LS-3	1/18/2005	<0.40	<0.10	<0.11	<0.010	<0.20	**661**	<0.10	NM	16	2	240	NM	<20
	4/25/2005	0.51	<0.10	<0.11	<0.010	<0.20	**1,630**	<0.20	NM	20.8	2.9	**654**	NM	<10
	10/7/2005	<0.40	<0.10	<0.11	<0.010	<0.20	**4,100**	0.59	NM	30.6	**7.7**	**2,320**	NM	<20
	1/19/2006	0.76	<0.10	<0.11	<0.010	<0.20	**819**	<0.20	NM	11.9	**4.8**	**324**	NM	<2.0
	4/26/2006	0.43	<0.10	<0.11	<0.050	<0.20	**2,590**	0.25	NM	24.3	5	**1,360**	NM	19.3
	7/18/2006	0.52	<0.10	<0.15	<0.050	<0.20	**4,930**	0.41	NM	38.6	7.8	**2,660**	NM	40.6
	10/19/2006	0.47	<0.10	<0.11	<0.010	<0.20	**3,320**	<0.20	NM	27.2	**6.4**	**1,900**	NM	2
	1/24/2007	0.55	<0.10	<0.11	<0.010	<0.20	**741**	<0.20	NM	16.9	2.9	**296**	NM	<10
	4/18/2007	0.57	0.13	0.13	<0.010	<0.20	**854**	<0.050	NM	42	**3.8**	**382**	NM	<20
	7/20/2007	0.64	<0.10	<0.11	<0.010	<0.20	**3,570**	<0.20	NM	40.1	**6.8**	**2,190**	NM	23
	10/26/2007	0.45	<0.10	<0.11	<0.010	<0.20	**3,320**	<0.20	NM	37.1	**5.9**	**1,800**	NM	<10
	1/25/2008	0.44	<0.10	<0.11	<0.010	<0.20	**1,070**	<0.20	NM	17.2	**3.7**	**440**	NM	<10
	4/15/2008	0.46	<0.10	<0.11	<0.010	<0.20	**1,510**	0.29	NM	18.7	**4**	**706**	NM	<10
	7/25/2008	0.52	<0.10	<0.11	<0.010	<0.20	**4,410**	<0.20	NM	45.5	**8.3**	**2,590**	NM	17.9
	10/14/2008	0.51	<0.10	<0.11	<0.010	<0.20	**3,290**	0.24	NM	28.3	**6.4**	**1,910**	NM	<10
	1/19/2009	0.47	<0.10	<0.11	<0.010	<0.20	**1,130**	<0.20	NM	22.8	**3.8**	**451**	NM	25.3
	4/27/2009	0.45	<0.10	<0.11	<0.010	<0.20	**1,290**	<0.10	NM	19.3	**4.7**	**745**	NM	<10
	7/31/2009	0.52	<0.10	<0.11	<0.010	<0.20	**3,560**	0.013	NM	36.4	**8.3**	**2,340**	NM	11.5
	10/27/2009	0.52	<0.10	<0.11	<0.010	<0.20	**2,740**	<0.10	NM	27.1	**6.7**	**1,620**	NM	<10
	1/27/2010	0.47	<0.10	<0.11	<0.010	<0.20	**928**	<0.20	NM	17.8	**3.4**	**402**	NM	<10
	4/5/2010	0.48	0.16	0.16	<0.010	<0.20	**913**	<0.10	NM	17.2	**3.4**	**387**	NM	<10
	7/21/2010	0.47	0.13	0.13	<0.010	<0.20	**2,940**	<0.20	NM	32.3	**4.7**	**1,550**	NM	<10
	10/25/2010	0.39	<0.10	<0.11	<0.010	<0.20	**4,360**	<0.20	NM	40.1	**7.5**	**2,400**	NM	<10
	1/19/2011	0.40	<0.10	<0.11	<0.010	<0.20	**1,040**	<0.20	NM	16.8	**3.6**	**537**	NM	<10
	4/20/2011	0.40	<0.10	<0.11	<0.010	<0.20	**1,140**	<0.20	NM	20.1	**3.0**	**449**	NM	13.3
	7/20/2011	0.41	<0.10	<0.11	<0.010	<0.20	**4,270**	<0.10	NM	38.3	**7.0**	**2,150**	NM	11.6
	10/21/2011	0.36	<0.10	<0.11	<0.010	<0.20	**3,850**	0.72	NM	32.3	**6.7**	**2,030**	NM	<10
	1/19/2012	0.41	<0.10	<0.11	<0.010	<0.20	**985**	<0.20	NM	18.0	**3.4**	**383**	NM	<10
	4/25/2012	0.52	<0.10	<0.12	<0.020	<0.20	**671**	<0.20	NM	11.9	2.1	223	NM	<10
	7/26/2012	0.51	<0.10	<0.11	<0.010	<0.20	**1,630**	0.32	NM	20.6	**3.8**	**773**	NM	<10
	10/23/2012	0.45*	<0.10*	<0.11	<0.010	<0.20*	**1,760***	<0.20	2,890	17.2*	**4.1***	**828***	6.85	<10*
	1/16/2013	<0.20[a]	<0.10	<0.11[f]	<0.010	<0.20	**7,390**	0.21[e]	9,990	19.1[d]	**6.8**	**3,780**	**6.30[g]**	**420**

Exhibit A
South Landfarm Sampling Summary - Wet Chemistry
Hess Port Reading Refinery
750 Cliff Road
Port Reading, Middlesex County, New Jersey

General Chemistry														
Sample ID	**Date**	**Fluoride**	**Nitrogen, Nitrate + Nitrite**	**Nitrogen, Nitrate**	**Nitrogen, Nitrite**	**Phenols**	**Solids, Total Dissolved**	**Total Organic Halides**	**Specific Conductivity**	**Total Organic Carbon**	**Nitrogen, Ammonia**	**Chloride**	**pH[1]**	**Sulfate**
NJDEP GWQS		**2**	**10**	**10**	**1**	**2**	**500**	**NA**	**NA**	**NA**	**3**	**250**	**6.5-8.5**	**250**
LS-4	1/18/2005	<0.40	<0.10	<0.11	<0.010	<0.25	**3,300**	<0.20	NM	77.5	<0.10	**1,710**	NM	<20
	4/25/2005	1.2	<0.10	<0.11	<0.010	<0.20	**4,680**	0.23	NM	70.6	**47.3**	**2,170**	NM	<10
	10/7/2005	<0.80	<0.10	<0.11	<0.010	<0.20	**5,530**	0.35	NM	78.1	**75.1**	**3,470**	NM	<20
	1/19/2006	1.3	<0.10	<0.11	<0.010	<0.20	**600**	<0.20	NM	4.9	**2.3**	**269**	NM	<2.0
	4/26/2006	0.86	<0.10	<0.11	<0.010	<0.20	**4,120**	<0.20	NM	68.2	**57.8**	**2,430**	NM	2.7
	7/18/2006	0.84	<0.10	<0.11	<0.010	<0.20	**4,690**	<0.20	NM	93.7	**72.1**	**2,580**	NM	<2.0
	10/19/2006	0.97	<0.10	<0.11	<0.010	<0.20	**4,600**	0.21	NM	99.2	**76.4**	**2,500**	NM	2.1
	1/24/2007	1	<0.10	<0.11	<0.010	<0.20	**4,360**	0.22	NM	85.2	**53**	**2,560**	NM	<10
	4/18/2007	1.3	<0.10	<0.11	<0.010	<0.20	400	<0.050	NM	5.9	2.1	165	NM	<20
	7/20/2007	1.1	<0.10	<0.11	<0.010	<0.20	**3,420**	<0.20	NM	76.1	**55.6**	**2,080**	NM	<10
	10/26/2007	0.93	<0.10	<0.11	<0.010	<0.20	**3,530**	<0.20	NM	67.4	**57.8**	**1,860**	NM	<10
	1/25/2008	0.73	<0.10	<0.11	<0.010	<0.20	**3,210**	<0.20	NM	76.5	**50.6**	**586**	NM	<10
	4/15/2008	0.92	<0.10	<0.11	<0.010	<0.20	**4,480**	0.27	NM	76.4	**61.2**	**2,340**	NM	<10
	7/25/2008	1.1	<0.10	<0.11	<0.010	<0.20	**3,710**	<0.050	NM	70.1	**66.4**	**1,990**	NM	<10
	10/14/2008	1.1	0.14	0.14	<0.010	<0.20	**4,560**	0.26	NM	54.2	**61**	**2,510**	NM	<10
	1/19/2009	0.73	<0.10	<0.11	<0.010	<0.20	**2,640**	<0.20	NM	72	**54.8**	**1,330**	NM	<10
	4/27/2009	<0.20	<0.10	<0.11	<0.010	<0.20	**2,820**	<0.20	NM	70.9	**56.5**	**1,490**	NM	<10
	7/31/2009	1.1	<0.10	<0.11	<0.010	<0.20	**3,680**	0.32	NM	71.3	**65.6**	**2,490**	NM	<10
	10/27/2009	0.97	<0.10	<0.11	<0.010	<0.20	**3,570**	<0.10	NM	71.2	**70.5**	**2,100**	NM	<10
	1/27/2010	0.91	<0.10	<0.11	<0.010	<0.20	**3,810**	0.13	NM	77.6	**64.4**	**2,100**	NM	<10
	4/5/2010	0.79	0.16	0.16	<0.010	<0.20	**3,618**	<0.10	NM	69.9	**58.8**	**1,940**	NM	<10
	7/21/2010	0.82	0.29	0.14	0.15	<0.20	**2,970**	<0.20	NM	56	**52.4**	**1,630**	NM	<10
	10/25/2010	0.84	<0.10	<0.11	<0.010	<0.20	**3,660**	0.41	NM	70.5	**45.6**	**1,870**	NM	<10
	1/19/2011	0.87	<0.10	<0.11	<0.010	<0.20	**3,350**	0.26	NM	65.9	**65.6**	**2,110**	NM	<10
	4/20/2011	0.7	<0.10	<0.11	<0.010	<0.20	**3,240**	0.24	NM	69.5	**39.4**	**1,830**	NM	<10
	7/20/2011	0.82	<0.10	<0.11	<0.010	<0.20	**3,740**	0.30	NM	76.2	**73.0**	**1,870**	NM	<10
	10/21/2011	0.78	<0.10	<0.11	<0.010	<0.20	**3,540**	0.37	NM	47.4	**55.6**	**1,750**	NM	<10
	1/19/2012	0.82	<0.10	<0.11	<0.010	<0.20	**3,710**	0.28	NM	55.5	**62**	**1,890**	NM	<10
	4/25/2012	0.76	<0.10	<0.11	0.013	<0.20	**3,580**	<0.20	NM	55.9	**57.4**	**2,040**	NM	20.9
	7/26/2012	0.79	0.10	<0.20	0.22	<0.20	**3,460**	0.32	NM	66.7	**43.7**	**1,870**	NM	10.4
	10/23/2012	0.83*	<0.10*	<0.11	<0.010	<0.20*	**4,480**	<0.20*	7,040*	81.2*	**54.2***	**2,140***	7.50	20.9*
	1/16/2013	0.49[a]	<0.10	<0.11[f]	<0.010	<0.20	**9,670**	<0.20	13,800	<1.0	**67.6**	**5,070**	6.87[g]	**558**

All data is reported in mg/l unless otherwise noted
ND- Not Detected NR- Not Reported
NA- Not Applicable J- Estimate Value
NS- Not Sampled 1- pH sample received out of holding time
NM- Not Monitored
*- Storage temperature of samples collected 10/23/2012 exceeded 6˚C due to power outage from tropical cyclone
a - Peak shape indicates matrix interference and possible positive bias
b- Detection Limit raised due to possible matrix interference
c - Detection Limit raised due to possible matrix interference indicated by high second column
d - Detection limit raised due to dilution required for possible matrix interference
e - Second column analysis indicates the possible matrix interference and possible high bias
f- Calculated as: (Nitrogen, Nitrate + Nitrite) - Nitrogen, Nitrite)
g - Sample received out of holding time for pH analysis

Exhibit A
South Landfarm Sampling Summary - Volatiles
Hess - Port Reading Refinery

Volatiles															
Sample ID	**Date**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Dibromochloromethane**	**1,2-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Ethylbenzene**	**Toluene**	**Xylenes (total)**	**Methyl Tert Butyl Ether**	**Tertiary Butyl Alcohol**
NJDEP GWQS		**1**	**50**	**NA**	**70**	**1**	**600**	**75**	**50**	**70**	**700**	**600**	**1,000**	**70**	**100**
LS-1R	1/18/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/25/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/7/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	0.31	1.9	ND
	4/26/2006	0.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.9	11.3
	7/18/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	39.2	12.1
	10/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/24/2007	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.8	22.1
	4/18/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND
	7/20/2007	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.7	12.3
	10/26/2007	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.2	ND
	1/25/2008	0.52	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.9	14.1
	4/15/2008	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	34	15.7
	7/25/2008	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.7	12.5
	10/14/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.3	14
	1/19/2009	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.5	ND
	4/27/2009	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.8	10.9
	7/31/2009	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.2	ND
	10/27/2009	ND	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4	ND
	1/27/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	24	ND
	4/5/2010	0.16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.6	ND
	7/21/2010	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND
	10/25/2010	0.32	0.32	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.2	ND
	1/19/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19.4	ND
	4/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4	ND
	7/20/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.5	10.1J
	10/21/2011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29J	ND	21.3	10.4J
	1/19/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	ND
	4/25/2012	ND	0.36 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND
	7/26/2012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND
	10/23/2012*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6	ND
	1/16/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.1	ND

Exhibit A
South Landfarm Sampling Summary - Volatiles
Hess - Port Reading Refinery

Volatiles															
Sample ID	**Date**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Dibromochloromethane**	**1,2-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Ethylbenzene**	**Toluene**	**Xylenes (total)**	**Methyl Tert Butyl Ether**	**Tertiary Butyl Alcohol**
NJDEP GWQS		**1**	**50**	**NA**	**70**	**1**	**600**	**75**	**50**	**70**	**700**	**600**	**1,000**	**70**	**100**
LS-2	1/18/2005	**9.4**	0.51	ND	ND	ND	ND	ND	ND	ND	0.3	ND	1.1	ND	ND
	4/25/2005	**18.5**	0.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND
	10/7/2005	**12.5**	1.4	ND	ND	ND	ND	ND	ND	ND	ND	0.26	2.3	ND	ND
	1/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	ND
	4/26/2006	**23.1**	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	**140**
	7/18/2006	**17.3**	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	**178**
	10/19/2006	**13.3**	1.0	ND	ND	ND	ND	ND	ND	ND	0.23	ND	1.8	ND	**187**
	1/24/2007	**11.6**	0.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	**171**
	4/18/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/20/2007	**14.4**	0.86	ND	ND	ND	ND	ND	ND	ND	0.24	ND	1.6	0.74	**180**
	10/26/2007	**10.6**	1.3	ND	ND	ND	ND	ND	ND	ND	0.27	ND	1.3	ND	**185**
	1/25/2008	**11.1**	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	0.74	**127**
	4/15/2008	**10.7**	0.86	ND	ND	ND	ND	ND	ND	ND	ND	0.36	1.3	ND	**105**
	7/25/2008	**12.7**	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	**183**
	10/14/2008	**10.6**	1.4	ND	ND	ND	ND	ND	ND	ND	0.25	0.24	1.4	ND	**192**
	1/19/2009	**5.7**	0.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	ND	**114**
	4/27/2009	**7.5**	0.49	ND	ND	ND	ND	ND	0.11	ND	ND	0.23	0.97	ND	79.8
	7/31/2009	**11.0**	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	**152**
	10/27/2009	**2.9**	0.36 J	ND	ND	ND	ND	ND	ND	ND	ND	0.29 J	0.58 J	ND	**198**
	1/27/2010	0.91	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	89.6
	4/5/2010	**8.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.42	ND	91.1
	7/21/2010	**3.3**	0.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.53	ND	**125**
	10/25/2010	**1.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**127**
	1/19/2011	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	88
	4/20/2011	**3.8**	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.6
	7/20/2011	**1.5**	0.58J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37J	ND	89.7
	10/21/2011	0.55J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**152**
	1/19/2012	0.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/25/2012	1.0	0.50 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	ND	92.9
	7/26/2012	0.75 J	0.50 J	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J	0.41 J	ND	88.6
	10/23/2012*	0.64 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	83.6
	1/16/2013	**2.9**	0.40 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52 J	ND	**109**

Exhibit A
South Landfarm Sampling Summary - Volatiles
Hess - Port Reading Refinery

Volatiles															
Sample ID	**Date**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Dibromochloromethane**	**1,2-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Ethylbenzene**	**Toluene**	**Xylenes (total)**	**Methyl Tert Butyl Ether**	**Tertiary Butyl Alcohol**
NJDEP GWQS		**1**	**50**	**NA**	**70**	**1**	**600**	**75**	**50**	**70**	**700**	**600**	**1,000**	**70**	**100**
LS-3	1/18/2005	**133**	ND	ND	ND	ND	ND	ND	ND	ND	0.55	3.9	4.2	ND	ND
	4/25/2005	**67.1**	ND	ND	ND	ND	ND	ND	ND	ND	0.52	1.2	2.7	ND	ND
	10/7/2005	**14.2**	ND	ND	ND	0.56	ND	ND	ND	ND	ND	0.38	0.88	ND	ND
	1/19/2006	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	ND	0.62	1.6	**110**
	4/26/2006	**64.6**	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.6	3.2	1.7	**558**
	7/18/2006	**25.1**	ND	ND	ND	ND	ND	ND	0.72	ND	0.75	0.4	1.8	0.79	**1,140**
	10/19/2006	**47.2**	ND	ND	ND	ND	ND	ND	ND	ND	0.57	1.8	2.3	1.1	**660**
	1/24/2007	**125**	ND	ND	ND	ND	ND	ND	ND	ND	0.59	4	5.2	1.4	**141**
	4/18/2007	0.22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/20/2007	**42.3**	ND	ND	ND	ND	ND	ND	ND	ND	0.73	0.75	2.5	0.9	**935**
	10/26/2007	**42.2**	ND	ND	ND	ND	ND	ND	ND	ND	0.43	1.6	1.4	0.73	**696**
	1/25/2008	**110**	ND	ND	0.23	ND	ND	ND	ND	ND	0.57	2.5	3.2	0.73	**195**
	4/15/2008	**53.9**	ND	ND	ND	ND	ND	ND	ND	ND	0.35	1	1.6	0.55	**251**
	7/25/2008	**21.2**	ND	ND	ND	ND	ND	ND	ND	0.36	0.38	0.32	0.97	0.53	**1,040**
	10/14/2008	**35.2**	ND	ND	ND	ND	ND	ND	0.43	ND	0.35	1.3	1.4	0.52	**854**
	1/19/2009	**83.8**	ND	ND	ND	ND	ND	ND	ND	ND	0.41	1.3	2.3	0.45	**208**
	4/27/2009	**44.3**	ND	ND	ND	ND	ND	ND	ND	ND	0.37	0.94	1.4	0.42	**247**
	7/31/2009	**24**	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.36	1	0.43	**825**
	10/27/2009	**60.6**	ND	ND	ND	ND	ND	ND	0.35 J	ND	0.34 J	2.18	2.1	ND	**686**
	1/27/2010	**82.6**	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J	1.9	2.2	ND	**141**
	4/5/2010	**88.5**	ND	ND	ND	ND	ND	ND	ND	ND	0.49 J	1.7	2.3	ND	**130**
	7/21/2010	**14.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35	0.89	ND	**309**
	10/25/2010	**26.8**	ND	0.66	ND	ND	ND	ND	ND	ND	ND	0.77	0.93	ND	**755**
	1/19/2011	**103**	ND	ND	ND	ND	ND	ND	ND	ND	0.44	3.2	4.1	ND	**169**
	4/20/2011	**68.0**	ND	ND	ND	ND	ND	ND	ND	ND	0.42	0.91	1.0	ND	**149**
	7/20/2011	**18.3**	ND	ND	ND	ND	ND	ND	ND	ND	0.23J	ND	1.0	ND	**289**
	10/21/2011	**26.1**	ND	ND	ND	ND	ND	ND	0.30J	ND	0.22J	0.48J	0.82J	ND	**584**
	1/19/2012	**102**	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	2.7	3.5	ND	**149**
	4/25/2012	**23.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.52 J	1.2	ND	71.9
	7/26/2012	**39.4**	ND	ND	ND	ND	ND	ND	ND	ND	0.23 J	0.68 J	1.3	ND	**189**
	10/23/2012*	**24.3**	ND	ND	ND	ND	ND	ND	ND	ND	0.27 J	0.79 J	1.5	ND	**198**
	1/16/2013	**131**	ND	ND	ND	ND	ND	ND	ND	ND	0.87 J	2.5	4.8	ND	ND

Exhibit A
South Landfarm Sampling Summary - Volatiles
Hess - Port Reading Refinery

Volatiles															
Sample ID	**Date**	**Benzene**	**Chlorobenzene**	**Chloroethane**	**Chloroform**	**Dibromochloromethane**	**1,2-Dichlorobenzene**	**1,4-Dichlorobenzene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**Ethylbenzene**	**Toluene**	**Xylenes (total)**	**Methyl Tert Butyl Ether**	**Tertiary Butyl Alcohol**
NJDEP GWQS		**1**	**50**	**NA**	**70**	**1**	**600**	**75**	**50**	**70**	**700**	**600**	**1,000**	**70**	**100**
LS-4	1/18/2005	**64.7**	0.86	ND	ND	ND	0.59	ND	ND	ND	0.3	2.8	16.2	ND	ND
	4/25/2005	**152**	ND	ND	ND	ND	1.0	0.35	ND	ND	0.79	9.1	49.5	ND	ND
	10/7/2005	**83.2**	ND	ND	ND	ND	0.82	ND	ND	ND	ND	2.4	19.3	ND	ND
	1/19/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.79	1.9	**234**
	4/26/2006	**264**	0.37	0.64	ND	ND	1.2	ND	ND	ND	1.3	15.3	86.1	0.74	**1,120**
	7/18/2006	**251**	ND	ND	ND	ND	1.4	ND	ND	ND	1.2	12.3	80.0	ND	**2,400**
	10/19/2006	**152**	ND	ND	ND	ND	0.87	ND	ND	ND	ND	4.4	38.7	ND	**2,290**
	1/24/2007	**149**	ND	ND	ND	ND	1.1	ND	ND	ND	0.84	7.6	73.5	1.1	**878**
	4/18/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/20/2007	**189**	0.38	ND	ND	ND	1.2	ND	ND	ND	0.85	8.0	69.5	0.52	**1,620**
	10/26/2007	**107**	ND	ND	ND	ND	0.95	ND	ND	ND	0.57	3.5	55.9	0.66	**773**
	1/25/2008	**171**	0.29	0.43	ND	0.2	1.1	ND	ND	ND	1.0	8.7	98.5	0.67	**668**
	4/15/2008	**253**	ND	ND	ND	ND	1.5	ND	ND	ND	1.3	12.5	114	0.49	**1,110**
	7/25/2008	**179**	ND	ND	ND	ND	1.0	0.33	ND	0.36	0.7	6.9	73.9	0.51	**1,040**
	10/14/2008	**177**	0.35	ND	ND	ND	1.2	0.38	0.27	0.35	0.89	6.4	78.7	0.41	**1,380**
	1/19/2009	**143**	ND	ND	ND	ND	0.91	0.31	ND	ND	0.75	6.0	75.2	0.37	**573**
	4/27/2009	**244**	0.38	ND	ND	ND	ND	ND	0.34	ND	1.3	13.4	110	ND	**1,500**
	7/31/2009	**158**	ND	ND	ND	ND	0.81	ND	ND	ND	0.56	5.4	62.7	0.46	**783**
	10/27/2009	**20.8**	ND	ND	ND	ND	0.62 J	0.34 J	ND	ND	0.22 J	1.2	10.8	ND	**696**
	1/27/2010	**6.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 J	3.1	ND	67
	4/5/2010	**15.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.83	5.3	ND	**141**
	7/21/2010	**12.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	5.8	ND	**106**
	10/25/2010	**4.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	**499**
	1/19/2011	**2.0**	ND	ND	ND	ND	0.25	ND	ND	ND	ND	0.34	1.8	ND	54.3
	4/20/2011	**10.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72	5.9	ND	89.2
	7/20/2011	**81.7**	ND	ND	ND	ND	0.62 J	0.24 J	ND	0.27 J	0.41 J	4.3	22.9	0.33 J	**639**
	10/21/2011	**6.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35J	2.6	ND	ND
	1/19/2012	0.59 J	ND	ND	ND	ND	0.19 J	ND	ND	ND	ND	ND	0.79 J	ND	44.2
	4/25/2012	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	**129**
	7/26/2012	**5.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41 J	1.9	ND	**172**
	10/23/2012*	0.49 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**106**
	1/16/2013	**3.3**	ND	ND	ND	ND	0.43 J	ND	ND	ND	0.24 J	0.81 J	5.3	0.39 J	**215**

All data is reported in ug/l unless otherwise noted
ND- Not Detected NR- Not Reported
NA- Not Applicable J- Estimate Value
NS- Not Sampled * Indicates storage temperature exceeded 6˚C due to power outage associated with tropical cyclone of Oct 29th and 30th
Values in **bold** indicate an exceedance of the GWQS

Exhibit A
South Landfarm Historic Groundwater Sampling Table - Metals
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

Metals												
Sample ID	**Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Selenium**	**Silver**	**Sodium**
NJDEP GWQS		**3**	**6,000**	**4**	**70**	**300**	**5**	**50**	**2**	**40**	**40**	**50,000**
LS-1R	1/18/2005	**40.6**	<200	<4.0	<10	**37,400**	<3.0	**8,460**	<0.20	<5.0	<10	**119,000**
	4/25/2005	**52.4**	<200	<4.0	<10	**40,500**	<3.0	**8,150**	<0.20	<5.0	<10	**123,000**
	7/27/2005	**16.2**	<200	<4.0	<10	**9,640**	<3.0	**6,200**	<0.20	<5.0	<10	**116,000**
	10/7/2005	**8.2**	<200	<4.0	<10	**26,600**	<3.0	**4,980**	<0.40	<5.0	<10	**115,000**
	1/19/2006	<6.0	<200	<4.0	<10	**112,000**	<3.0	**2,400**	<0.40	<5.0	<10	**284,000**
	4/26/2006	**15.0**	<200	<4.0	<10	**5,220**	<3.0	**2,560**	<0.40	<5.0	<10	**96,800**
	7/18/2006	**9.8**	<200	<4.0	<10	**23,900**	<3.0	**5,310**	<0.40	<5.0	<10	**108,000**
	1/24/2007	**10.0**	<200	<4.0	<10	**18,900**	<3.0	**5,930**	<0.20	<10	<10	**125,000**
	4/18/2007	**14.0**	<200	<4.0	<10	**104,000**	<3.0	**2,260**	<0.20	<5.0	<10	**221,000**
	7/20/2007	**15.1**	<200	<4.0	<10	**19,100**	**12.0**	**2,910**	<0.20	<10	<10	**93,900**
	10/26/2007	**16.2**	<200	<4.0	<10	**21,900**	<3.0	**4,350**	<0.20	<10	<10	**108,000**
	1/25/2008	**16.2**	<200	<4.0	<10	**22,400**	<3.0	**5,740**	<0.20	<10	<10	**109,000**
	4/15/2008	**142**	<200	<4.0	<10	**132,000**	**5.8**	**11,300**	<0.20	<10	<10	**114,000**
	7/25/2008	**22.2**	<200	<4.0	<10	**21,000**	<3.0	**5,730**	<0.20	18.9	<10	**96,900**
	10/14/2008	**33.7**	<200	<3.0	<10	**34,700**	<3.0	**9,750**	<0.20	<10	<10	**114,000**
	1/19/2009	**16.1**	<200	<3.0	<10	**38,800**	<3.0	**8,460**	<0.20	<10	<10	**118,000**
	4/27/2009	**16.8**	<200	<3.0	<10	**21,700**	<3.0	**8,060**	<0.20	<10	<10	**113,000**
	7/31/2009	**18.7**	<200	<4.0	<10	**26,500**	<3.0	**5,800**	<0.20	<10	<10	**106,000**
	10/27/2009	**14.0**	<200	<3.0	<10	**31,800**	**5.3**	**8,580**	<0.20	<10	<10	**123,000**
	1/27/2010	**12.5**	<200	<3.0	<10	**26,700**	<3.0	**8,840**	<0.20	<10	<10	**126,000**
	4/5/2010	**12.8**	<200	<3.0	<10	**28,000**	<3.0	**10,300**	<0.20	<10	<10	**119,000**
	7/21/2010	**17.8**	<200	<3.0	<10	**35,200**	<3.0	**13,600**	<0.20	<10	<10	**127,000**
	10/25/2010	**10.0**	<200	<3.0	<10	**20,000**	<3.0	**8,270**	<0.20	<10	<10	**123,000**
	1/19/2011	**15.9**	<200	<3.0	<10	**32,500**	<3.0	**7,940**	<0.20	<10	<10	**125,000**
	4/20/2011	**16.9**	<200	<3.0	<10	**32,700**	<3.0	**12,000**	<0.20	<10	<10	**119,000**
	7/20/2011	**19.0**	<200	<3.0	<10	**34,700**	<3.0	**13,400**	<0.20	<10	<10	**119,000**
	10/21/2011	**35.7**	257	<3.0	<10	**50,700**	<3.0	**15,500**	<0.20	<20	<10	**129,000**
	1/19/2012	**21.1**	<200	<3.0	<10	**27,500**	<3.0	**7,010**	<0.20	<10	<10	**123,000**
	4/25/2012	**12.1**	<200	<3.0	<10	**13,100**	<3.0	**3,170**	<0.20	<10	<10	**99,200**
	7/26/2012	**9.6**	<200	<3.0	<10	**10,700**	<3.0	**801**	<0.20	<10	<10	**93,300**
	10/23/2012	**8.6**	<200	<3.0	<10	**13,400**	<3.0	**5,030**	<0.20	<10	<10	**103,000**
	1/16/2013	**5.6**	<200	<3.0	<10	**15,800**	<3.0	**7,120**	<0.20	<10	<10	**122,000**

Exhibit A
South Landfarm Historic Groundwater Sampling Table - Metals
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

Metals												
Sample ID	**Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Selenium**	**Silver**	**Sodium**
NJDEP GWQS		**3**	**6,000**	**4**	**70**	**300**	**5**	**50**	**2**	**40**	**40**	**50,000**
LS-2	1/18/2005	**571**	4,590	**9.7**	69	**310,000**	**63.4**	**1,160**	<0.20	6.8	<10	**641,000**
	4/25/2005	**71.0**	3,010	<4.0	<10	**37,200**	<3.0	**603**	<0.20	<5.0	<10	**668,000**
	7/27/2005	**350**	5,040	<4.0	**99.7**	**108,000**	**76.7**	**1,020**	<0.20	<5.0	<10	**1,230,000**
	10/7/2005	**213**	4,690	<4.0	22.6	**48,100**	**18.4**	**657**	<0.40	<5.0	<10	**1,260,000**
	1/19/2006	**<6.0**	200	<4.0	<10	**28,400**	<3.0	**314**	<0.20	<5.0	<10	**96,300**
	4/26/2006	**73.0**	3,900	<4.0	<10	**19,600**	<3.0	**582**	<0.20	10.1	<10	**1,250,000**
	7/18/2006	**72.4**	4,290	<4.0	<10	**22,500**	**8.2**	**588**	<0.20	<10	<10	**110,000**
	10/19/2006	**96.8**	5,010	<4.0	<10	**19,900**	<3.0	**608**	<0.20	<10	<10	**1,370,000**
	1/24/2007	**57.5**	4,310	<4.0	<10	**26,600**	4.6	**624**	<0.20	<10	<10	**1,100,000**
	4/18/2007	**<5.0**	<200	<4.0	<10	**21,600**	<3.0	**267**	<0.20	<5.0	<10	**102,000**
	7/20/2007	**63.0**	4,470	<4.0	<10	**23,900**	**5.1**	**605**	<0.20	<10	<10	**1,200,000**
	10/26/2007	**386**	**8,790**	**<13**	<33	**130,000**	**17.3**	**1,210**	<0.40	<33	<33	**2,020,000**
	1/25/2008	**83.7**	3,150	<4.0	<10	**28,300**	<3.0	**541**	<0.20	<30	<10	**913,000**
	4/15/2008	**80.1**	2,290	**4.8**	<10	**27,000**	**5.1**	**491**	<0.20	<10	<10	**775,000**
	7/25/2008	**93.7**	4,400	<4.0	<10	**21,600**	**5.6**	**641**	<0.20	<10	<10	**1,090,000**
	10/14/2008	**117**	4,820	<3.0	<10	**22,900**	3.8	**654**	<0.20	<10	<10	**1,180,000**
	1/19/2009	**209**	3,400	**5.7**	14.1	**94,200**	**17.4**	**653**	<0.40	<10	<10	**684,000**
	4/27/2009	**78.8**	2,350	<3.0	<10	**30,200**	<3.0	**421**	<0.20	<10	<10	**580,000**
	7/31/2009	**228**	4,130	<3.0	17.6	**69,300**	**14.6**	**777**	<0.20	<10	<10	**961,000**
	10/27/2009	**35.9**	4,470	<3.0	<10	**15,300**	**12.9**	**595**	<0.20	<10	<10	**1,010,000**
	1/27/2010	**38.8**	2,770	<3.0	<10	**23,400**	<3.0	**545**	<0.20	<10	<10	**658,000**
	4/5/2010	**60.5**	3,130	<3.0	<10	**47,600**	<3.0	**625**	<0.20	<10	<10	**667,000**
	7/21/2010	**41.4**	4,420	<3.0	<10	**18,400**	<3.0	**577**	<0.20	<10	<10	**994,000**
	10/25/2010	**31.6**	4,520	<3.0	<10	**12,100**	<3.0	**443**	<0.20	36.1	<10	**1,080,000**
	1/19/2011	**40.1**	2,400	<3.0	<10	**15,400**	<3.0	**364**	<0.20	<10	<10	**611,000**
	4/20/2011	**29.5**	404	<3.0	<10	**13,100**	<3.0	**507**	<0.20	<10	<10	**579,000**
	7/20/2011	**47.4**	2,880	<3.0	<10	**16,800**	<3.0	**512**	<0.20	<10	<10	**926,000**
	10/21/2011	**25.5**	5,540	<3.0	<10	**8,330**	<3.0	**472**	<0.20	<10	<10	**912,000**
	1/19/2012	**26.2**	4,280	<3.0	41.7	**10,900**	<15	**576**	<0.20	<10	<10	**673,000**
	4/25/2012	**32.9**	3,160	<3.0	29.4	**13,800**	<3.0	**491**	<0.20	<10	<10	**612,000**
	7/26/2012	**27.4**	4,180	<3.0	<10	**12,300**	<3.0	**556**	<0.20	<10	<10	**864,000**
	10/23/2012	**49.2**	4,480	<3.0	<10	**15,500**	<9.0	**584**	<0.20	<10	<10	**982,000**
	1/16/2013	**35.2**	1,290	<3.0	<10	**18,000**	<15[a]	**654**	<0.20	<10	<10	**1,490,000**

Exhibit A
South Landfarm Historic Groundwater Sampling Table - Metals
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

Metals												
Sample ID	**Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Selenium**	**Silver**	**Sodium**
NJDEP GWQS		**3**	**6,000**	**4**	**70**	**300**	**5**	**50**	**2**	**40**	**40**	**50,000**
LS-3	1/18/2005	**18.9**	<200	<4.0	<10	**37,500**	3.8	**1,130**	<0.20	<5.0	<10	**147,000**
	4/25/2005	**62.3**	514	<4.0	<10	**342,000**	<3.0	**2,000**	<0.20	<5.0	<10	**381,000**
	7/27/2005	**30.1**	593	<4.0	<10	**205,000**	<3.0	**4,080**	<0.20	<5.0	<10	**1,250,000**
	10/7/2005	**11.6**	447	<4.0	<10	**95,500**	<3.0	**2,450**	<0.40	<5.0	<10	**1,040,000**
	1/19/2006	**<6.0**	<200	<4.0	<10	**78,100**	<3.0	**1,500**	<0.20	<5.0	<10	**183,000**
	4/26/2006	**11.7**	283	<4.0	<10	**90,800**	<3.0	**2,560**	<0.20	<10	<10	**651,000**
	7/18/2006	**17.0**	479	**8.3**	<10	**138,000**	3.4	**3,670**	<0.20	<10	<10	**1,110,000**
	10/19/2006	**8.8**	348	<4.0	<10	**71,400**	<3.0	**1,930**	<0.20	<10	<10	**847,000**
	1/24/2007	**<8.0**	<200	<4.0	<4.0	**29,100**	<3.0	**987**	<0.20	<10	<10	**156,000**
	4/18/2007	**<5.0**	<200	<4.0	<4.0	**71,000**	<3.0	**555**	<0.20	<5	<10	**226,000**
	7/20/2007	**19.6**	443	<4.0	<10	**118,000**	**9.4**	**3,190**	<0.20	<10	<10	**1,060,000**
	10/26/2007	**13.3**	392	<4.0	<10	**65,800**	<3.0	**1,850**	<0.20	<10	<10	**799,000**
	1/25/2008	**23.8**	<200	<4.0	<10	**70,100**	<3.0	**1,080**	<0.40	<10	<10	**268,000**
	4/15/2008	**14.1**	<200	<4.0	<10	**44,200**	<3.0	**1,230**	<0.20	<10	<10	**358,000**
	7/25/2008	**46.8**	618	<4.0	<10	**174,000**	<3.0	**2,850**	<0.20	26.5	<10	**1,020,000**
	10/14/2008	**38.5**	490	<3.0	<10	**115,000**	<3.0	**1,780**	<0.20	<10	<10	**822,000**
	1/19/2009	**40.1**	223	<3.0	<10	**95,600**	<3.0	**941**	<0.40	<10	<10	**303,000**
	4/27/2009	**13.7**	<200	<3.0	<10	**39,700**	<3.0	**1,050**	<0.20	<10	<10	**393,000**
	7/31/2009	**42.0**	548	3.5	<10	**171,000**	<3.0	**2,630**	<0.20	<10	<10	**966,000**
	10/27/2009	**8.2**	348	<3.0	<10	**55,800**	<3.0	**1,350**	<0.20	<10	<10	**748,000**
	1/27/2010	**6.2**	<200	<3.0	<10	**27,000**	<3.0	**801**	<0.20	<10	<10	**281,000**
	4/5/2010	**16.1**	<200	<3.0	<10	**56,100**	<3.0	**830**	<0.20	<10	<10	**265,000**
	7/21/2010	**8.6**	321	<3.0	<10	**72,000**	<3.0	**1,230**	<0.20	<10	<10	**784,000**
	10/25/2010	**10.3**	463	<3.0	<10	**54,200**	<3.0	**1,650**	<0.20	<10	<10	**885,000**
	1/19/2011	**6.1**	<200	<3.0	<10	**28,700**	<3.0	**755**	<0.20	<10	<10	**300,000**
	4/20/2011	**5.9**	<200	<3.0	<10	**26,900**	<3.0	**808**	<0.20	<10	<10	**294,000**
	7/20/2011	**14.1**	469	<3.0	<10	**108,000**	<3.0	**2,050**	<0.20	<10	<10	**1,040,000**
	10/21/2011	**11.7**	417	<3.0	<10	**61,400**	<3.0	**1,100**	<0.20	<10	<10	**895,000**
	1/19/2012	**8.4**	<200	<3.0	<10	**20,800**	**7.0**	**590**	<0.20	<10	<10	**267,000**
	4/25/2012	**8.3**	<200	<3.0	<10	**14,900**	<3.0	**417**	<0.20	<10	<10	**177,000**
	7/26/2012	<3.0	202	<3.0	<10	**29,200**	<3.0	**768**	<0.20	<10	<10	**405,000**
	10/23/2012	**5.5**	<200	<3.0	<10	**21,700**	**5.8**	**642**	<0.20	<10	<10	**413,000**
	1/16/2013	**44.8**	1,030	<3.0	<10	**306,000**	**3.6**	**4,900**	<0.20	<10	<10	**1,290,000**

Exhibit A
South Landfarm Historic Groundwater Sampling Table - Metals
Hess - Port Reading Refinery
750 Cliff Road
Port Reading, New Jersey

		Metals										
Sample ID	**Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Selenium**	**Silver**	**Sodium**
NJDEP GWQS		**3**	**6,000**	**4**	**70**	**300**	**5**	**50**	**2**	**40**	**40**	**50,000**
LS-4	1/18/2005	**47.7**	373	<4.0	<10	**45,700**	**6.4**	**606**	<0.20	<5.0	<10	**841,000**
	4/25/2005	**38.1**	567	<4.0	<10	**51,000**	**5.0**	**441**	<0.20	<5.0	<10	**1,670,000**
	7/27/2005	**81.3**	826	5.8	45.3	**158,000**	**26.5**	**822**	<0.20	<5.0	<10	**1,870,000**
	10/7/2005	**58.5**	648	**5.4**	19.5	**134,000**	**21.9**	**970**	<0.40	<5.0	<10	**1,560,000**
	1/19/2006	**9.3**	<200	<4.0	<10	**43,400**	<3.0	**528**	<0.20	<5	<10	**159,000**
	4/26/2006	**30.4**	314	<4.0	<10	**35,600**	<3.0	**1,000**	<0.20	<10	<10	**847,000**
	7/18/2006	**38.2**	445	<4.0	<10	**31,600**	<3.0	**735**	<0.20	<10	<10	**1,260,000**
	10/19/2006	**37.9**	543	<4.0	<10	**351,100**	<3.0	**519**	<0.20	<10	<10	**1,690,000**
	1/24/2007	**25.5**	478	<4.0	<10	**34,600**	<3.0	**743**	<0.20	<10	<10	**1,470,000**
	4/18/2007	**11.0**	<200	<4.0	<10	**27,300**	<3.0	**445**	<0.20	<5.0	<10	**84,100**
	7/20/2007	**36.1**	362	<4.0	<10	**27,300**	<3.0	**627**	<0.20	<10	<10	**998,000**
	10/26/2007	**41.6**	338	<4.0	<10	**27,600**	<3.0	**611**	<0.20	<10	<10	**851,000**
	1/25/2008	**25.5**	313	<4.0	<10	**25,800**	<3.0	**1,090**	<0.20	<10	<10	**995,000**
	4/15/2008	**32.2**	414	<4.0	<10	**35,400**	<3.0	**999**	<0.20	<10	<10	**1,220,000**
	7/25/2008	**41.4**	335	<4.0	<10	**27,500**	<3.0	**855**	<0.20	<10	<10	**870,000**
	10/14/2008	**39.2**	359	<3.0	<10	**25,200**	<3.0	**683**	<0.20	<10	<10	**1,030,000**
	1/19/2009	**27.5**	290	<3.0	<10	**22,400**	3.1	**787**	<0.20	<10	<10	**899,000**
	4/27/2009	**26.4**	246	<3.0	<10	**23,900**	<3.0	**857**	<0.20	<10	<10	**717,000**
	7/31/2009	**34.1**	443	<3.0	<10	**29,800**	<3.0	**520**	<0.20	<10	<10	**1,190,000**
	10/27/2009	**21.2**	352	<3.0	<10	**12,500**	<3.0	**473**	<0.20	<10	<10	**1,180,000**
	1/27/2010	**20.1**	335	<3.0	<10	**14,500**	<3.0	**375**	<0.20	<10	<10	**1,180,000**
	4/5/2010	**12.9**	282	<3.0	<10	**10,800**	<3.0	**393**	<0.20	<10	<10	**1,180,000**
	7/21/2010	**23.1**	262	<3.0	<10	**13,500**	<3.0	**235**	<0.20	<10	<10	**889,000**
	10/25/2010	**25.5**	326	<3.0	<10	**12,000**	<3.0	**321**	<0.20	<10	<10	**857,000**
	1/19/2011	**28.1**	327	<3.0	<10	**19,100**	<3.0	**314**	<0.20	<10	<10	**1,000,000**
	4/20/2011	**14.5**	250	<3.0	<10	**7,670**	<3.0	**365**	<0.20	<10	<10	**820,000**
	7/20/2011	**72.2**	435	<3.0	<10	**54,100**	4.1	**395**	<0.40	<10	<10	**993,000**
	10/21/2011	**22.1**	305	<3.0	<10	**9,400**	<3.0	**282**	<0.20	<10	<10	**992,000**
	1/19/2012	**20.1**	342	<3.0	12.2	**10,900**	<15	**311**	<0.20	<10	<10	**860,000**
	4/25/2012	**8.2**	282	<3.0	10.7	**3,310**	<3.0	**317**	<0.20	<10	<10	**1,040,000**
	7/26/2012	**27.4**	315	<3.0	<10	**17,100**	3.3	**223**	<0.20	<10	<10	**1,050,000**
	10/23/2012	**19.4**	341	<3.0	<10	**8,560**	<9.0	**244**	<0.20	<10	<10	**1,210,000**
	1/16/2013	**45.3**	530	<3.0	<10	**82,700**	<15[b]	773	<0.20	<50[b]	<10	**2,250,000**

All data is reported in ug/l unless otherwise noted
ND- Not Detected
NA- Not Applicable
NS- Not Sampled
NR- Not Reported
J- Estimate Value

Indicates Run limit greater than the GWQS
Values in **bold** indicate an exceedance of the GWQS

a- Elevated Detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis
b - Elevated detection limit due to dilurtion required for matrix interference

Exhibit B
South Landfarm Groundwater Sampling Summary
Hess Corporation - Port Reading
750 Cliff Road
Port Reading, Middlesex County, New Jersey

		Gauging Data*					Volatile Organic Compounds																						
Sample ID	Date	TOC Elevation (ft)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	GW Elevation (ft)	Acetone	Benzene	Bromo dichloro methane	2-Butanone (MEK)	Carbon disulfide	Chloro benzene	Chloro ethane	Chloroform	Cyclohexane	1,2-Dichloro benzene	1,3-Dichloro benzene	1,4-Dichloro benzene	Dichloro difluoro methane	1,1-Dichloro ethane	1,2-Dichloro ethane	1,1-Dichloro ethene	cis-1,2-Dichloro ethene	trans-1,2-Dichloro ethene	1,2-Dichloro propane	1,4-Dioxane	Ethyl benzene	Freon 113	2-Hexanone
NJDEP GWQS		-	-	-	-	-	6,000	1	1	300	700	50	5	70	NA	600	600	75	1,000	50	2	1	70	100	1	10	700	NA	300
AB-1	5/13/02	13.85	5.68	--	--	8.17	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	13.85	5.25	--	--	8.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	13.85	8.51	--	--	5.34	44.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/11	13.85	5.35	--	--	8.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	13.85	5.42	--	--	8.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-2	5/13/02	12.03	5.30	--	--	6.73	5.1	0.51	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
AB-2R	09/01/09	10.81	4.04	--	--	6.77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	10.81	5.46	--	--	5.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/11	10.81	4.10	--	--	6.71	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	10.81	4.35	--	--	6.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-3	5/13/02	7.09	7.35	--	--	-0.26	ND	**75.9**	NA	ND	NA	5.4	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	7.7	NA	NA
	09/01/09	7.09	3.63	--	--	3.46	ND	**15.1**	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31J	ND	ND
	09/08/10	7.09	5.77	--	--	1.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/11	7.09	4.49	--	--	2.60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	7.08	3.10	--	--	3.98	ND	**28.8**	ND	ND	ND	7.9	ND	ND	ND	0.29J	ND	0.38J	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND
AB-4	5/13/02	14.24	6.86	--	--	7.38	ND	0.71	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	1.6	NA	NA
	09/01/09	14.24	3.71	--	--	10.53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	Well Dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	14.24	3.92	--	--	10.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	14.24	3.42	--	--	10.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AB-5	5/13/02	13.24	5.58	--	--	7.66	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	13.24	4.72	--	--	8.52	8.8J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	13.24	8.03	--	--	5.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/11	13.24	4.42	--	--	8.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	13.24	5.30	--	--	7.94	8.7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-2	5/13/02	12.91	6.22	--	--	6.69	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/02/09	12.91	6.27	--	--	6.64	9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	12.91	8.59	--	--	4.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/20/11	12.91	4.23	--	--	8.68	15.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	12.91	5.02	--	--	7.89	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-3	5/13/02	9.55	4.91	--	--	4.64	4.1	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/02/09	9.55	5.11	--	--	4.44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/09/10	9.55	5.19	--	--	4.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/22/11	9.55	4.45	--	--	5.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	9.55	4.05	--	--	5.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-4	5/13/02	12.78	7.60	--	--	5.18	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	12.78	6.20	--	--	6.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/07/10	12.78	7.02	--	--	5.76	43.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/11	12.78	6.55	--	--	6.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	12.78	6.70	--	--	6.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-5	5/13/02	20.47	10.22	--	--	10.25	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	08/31/09	20.47	10.91	--	--	9.56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	20.47	11.41	--	--	9.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/11	20.47	9.39	--	--	11.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	20.47	10.97	--	--	9.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-6	5/13/02	21.93	8.85	--	--	13.08	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
PER-6R	08/31/09	23.79	2.82	--	--	20.97	ND	ND	ND	ND	ND	ND	ND	0.43J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/10/10	23.79	2.13	--	--	21.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/19/11	23.79	10.84	--	--	12.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	23.79	13.11	--	--	10.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-7	5/13/02	11.15	8.21	--	--	2.94	ND	ND	NA	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	11.15	6.60	--	--	4.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	11.15	7.21	--	--	3.94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/11	11.15	5.70	--	--	5.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	11.15	6.65	--	--	4.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PER-8	5/13/02	10.40	-	-	-	-	ND	ND	NA	**14,300**	NA	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	ND	NA	NA
	09/01/09	10.40	4.10	--	--	6.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/08/10	10.40	6.50	--	--	3.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.56J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/21/11	10.40	4.12	--	--	6.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	10.40	5.90	--	--	4.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PL-1	5/13/02	11.82	3.07	3.05	0.02	8.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/02/09	11.82	2.38	--	--	9.44	11	**29.1**	ND	ND	ND	**667[a]**	ND	ND	ND	6.5	9	33.1	ND	ND	ND	ND	0.71J	0.75J	ND	ND	2.2	ND	ND
	09/09/10	11.82	3.50	3.48	0.01	8.32	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	11.82	3.01	--	--	8.81	ND	**28.2**	ND	ND	ND	**405[a]**	ND	ND	0.67J	2.1	4.3	13.9	ND	ND	ND	ND	ND	ND	ND	ND	0.54J	ND	ND
PL-1R	11/26/12	Damaged					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-2	5/13/02	11.78	2.70	2.68	0.02	9.09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/09	11.78	2.10	2.11	0.01	9.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	11.78	2.92	2.90	0.01	8.87	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	11.78	2.18	2.15	0.03	9.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/12	11.78	2.05	2.04	0.01	9.74	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-3	5/13/02	12.81	3.01	--	--	9.8	ND	**109**	NA	ND	NA	0.7	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	1	NA	NA
PL-3R	08/31/09	12.27	--	--	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	12.27	2.74	--	--	9.53	ND	**63.5**	ND	ND	ND	0.56J	ND	ND	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND
	09/20/11	12.27	2.51	--	--	9.76	ND	**1.8**	ND	ND	ND	0.23J	ND	ND	3.2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/26/12	12.27	2.91	2.92	0.01	9.37	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		Volatile Organic Compounds																				
Sample ID	Date	Isopropyl benzene	Methyl cyclo hexane	Methyl Tert Butyl Ether (MTBE)	4-Methyl-2-pentanone (MIBK)	Methylene chloride	Tert Butyl Alcohol	Tetra chloro ethene	Toluene	1,2,3-Trichloro benzene	1,2,4-Trichloro benzene	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	Trichloro ethene	Vinyl chloride	Xylene (total)	Total TIC, Volatile	Ammonia	Aluminum	Antimony	Arsenic	Barium
NJDEP GWQS		NA	NA	70	NA	3	100	1	600	NA	9	30	3	1	1	1,000	100/500	3,000	200	6	3	6,000
AB-1	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	6.3	NA	**2,050**	<5.0	**7.7**	<200
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**11,700**	<6.0	**14.6**	<200
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	73 (1)J	NA	**43,500[d]**	<12[d]	**70.2[d]**	<400[d]
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	<200	**672**	<6.0	**3.3**	<200
AB-2	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	11	NA	**4,850**	<5.0	**8.4**	<200
AB-2R	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**921**	<6.0	**14.3**	226
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**5,990**	<6.0	**5.9**	<200
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	2,700	<200	<6.0	<3.0	<200
AB-3	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	11.9	**531**	NA	**7,490**	<5.0	**20.3**	<200
	09/01/09	2.2	ND	2.6	ND	ND	25.4	ND	ND	ND	ND	ND	ND	ND	ND	0.87J	12.8 (2)J	NA	**561**	**8.5**	**32.3**	216
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**303**	<6.0	**5.1**	<200
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	2.6	ND	9.4	ND	ND	14.1J	ND	ND	ND	ND	ND	ND	ND	ND	0.41J	16 (1)J	**3,400**	<200	<6.0	<3.0	<200
AB-4	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	6	92.8	NA	**7,360**	<5.0	**17**	597
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**5,200**	<6.0	<3.0	<200
	09/08/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	<200	**1,730**	<6.0	<3.0	<200
AB-5	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	100	NA	**2,880**	<5.0	**10.4**	<200
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**283**	<6.0	<3.0	<200
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**1,300**	<6.0	**8.2**	<200
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	320	<200	<6.0	3	<200
PER-2	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	490	NA	**17,100**	<5.0	**29.9**	<200
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**509**	<6.0	<3.0	<200
	09/09/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**15,000**	<6.0	**18**	<200
	09/20/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	320	**329**	<6.0	<60[c]	485
PER-3	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	**1,800**	NA	**2,360**	<5.0	**13.6**	<200
	09/02/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**238**	<6.0	**8.9**	<200
	09/09/10	ND	ND	ND	ND	ND	7.8J	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**1,630**	<6.0	**9.3**	<200
	09/22/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	730	**7,360**	<6.0	<30[c]	231
PER-4	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	6.4	NA	**460**	<5.0	**25.5**	327
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**271**	<6.0	**3.6**	<200
	09/07/10	ND	ND	0.78J	ND	ND	27.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	24 (1)J	NA	**1,930**	<6.0	**16.2**	<200
	09/21/11	ND	ND	0.49J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	1.2	ND	ND	17.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	62.8 (5)J	2,200	**1,270**	<6.0	**12.5**	<200
PER-5	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	1.1	ND	ND	ND	ND	**1,900**	NA	**10,300**	<5.0	<5.0	<200
	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**462**	<6.0	<3.0	<200
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**2,610**	<6.0	**3.4**	<200
	09/21/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	<200	<200	<6.0	<3.0	<200
PER-6	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	7.3	NA	**3,540**	<5.0	<5.0	<200
PER-6R	08/31/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**2,190**	<6.0	<3.0	<200
	09/10/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**1,160**	<6.0	<3.0	<200
	09/19/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	<200	**293**	<6.0	<3.0	<200
PER-7	5/13/02	NA	NA	NA	ND	ND	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	**1,012**	NA	**17,200**	<5.0	**9.7**	<200
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**3,230**	<6.0	**3.9**	<200
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**10,400**	<6.0	**11.1**	<200
	09/21/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	<200	**9,760**	<6.0	**4.2**	560
PER-8	5/13/02	NA	NA	NA	ND	ND	NA	ND	16.5	NA	NA	ND	ND	ND	ND	ND	0.0	NA	**3,930**	<5.0	**7.9**	<200
	09/01/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**417**	<6.0	<3.0	<200
	09/08/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	**1,050**	<6.0	**4.2**	<200
	09/21/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	NA	NA	NA	NA	NA
	11/26/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0	1,100	**229**	<6.0	**3.3**	<200
PL-1	5/13/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/02/09	1.1J	1.4J	4.7	ND	ND	**2,280[a]**	ND	0.68J	ND	ND	ND	ND	ND	0.74J	1.5J	201.4 (8)J	NA	<200	<6.0	**8**	1,850
	09/09/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	1.1J	0.32J	9.9	ND	ND	**1,170[a]**	ND	0.64J	ND	ND	ND	ND	ND	ND	ND	5.9 (1)J	NA	NA	NA	NA	NA
PL-1R	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-2	5/13/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-3	5/13/02	NA	NA	NA	ND	ND	NA	ND	1.5	NA	NA	ND	ND	ND	ND	14.2	450	NA	**2,910**	<5.0	**39.1**	553
PL-3R	08/31/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	1.7J	5	**111**	ND	ND	98	ND	1.1	ND	ND	ND	ND	ND	ND	21.2	421 (15)J	NA	**268**	<6.0	**10.2**	<200
	09/20/11	1.8J	1.9J	31.5	ND	ND	**184**	ND	0.46J	ND	ND	ND	ND	ND	ND	1.5J	50.1 (6)J	NA	NA	NA	NA	NA
	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes
* Gauging date may not represent actual sample date
GWQS = Ground Water Quality Standard
TOC = Top of Casing
LNAPL = Light Non-Aqueous Phase Liquid
TIC = Tentatively Identified Compound
NCE = No Criterion Established

ug/L = micrograms per Liter
NA = Not Analyzed
ND = Not Detected
NM = Not Monitored
NS = Not Sampled
J = The concentration was detected at a value below the RL and above the MDL

a = Results are from second run
b = Results are from third run
c = Elevated detection limit due to dilution required for high interfering element
d = Elevated sample detection limit due to difficult sample matrix
e = Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis)
f = Detection limit raised due to dilution required for possible matrix interference

Notes
micrograms per Liter
* Gauging date may not represent actual sample date
GWQS = Ground Water Quality Standard
TOC = Top of Casing
LNAPL = Light Non-Aqueous Phase Liquid
TIC = Tentatively Identified Compound
NCE = No Criterion Established
ug/L = Not Reported
NA = Not Analyzed
ND = Not Detected
NM = Not Monitored
NS = Not Sampled
J = The concentration was detected at a value below the RL and above the MDL
a = Results are from
b = Results are from
c = Elevated detectic
d = Elevated sample
e = Elevated detectic
f = Detection limit rai

Notes
* Gauging date may not
GWQS =
TOC =
LNAPL =
TIC =
NCE =
ug/L = micrograms per Liter
NA = Not Analyzed
ND = Not Detected
NM = Not Monitored
NS = Not Sampled
J = The concentration was d

Notes
* Gauging date may not represent actual sample date
GWQS = Ground Water Quality Standard
ug/L = micrograms per Liter
NA = Not Analyzed
a = Results are from second run
b = Results are from third run

Notes
* Gauging date may not represent actual sample date
GWQS = Ground Water Quality Standard
ug/L = micrograms per Liter
NA = Not Analyzed
a = Results are from
b = Results are from
Notes
* Gauging date may not
GWQS =
ug/L = micrograms per Liter
NA = Not Analyzed

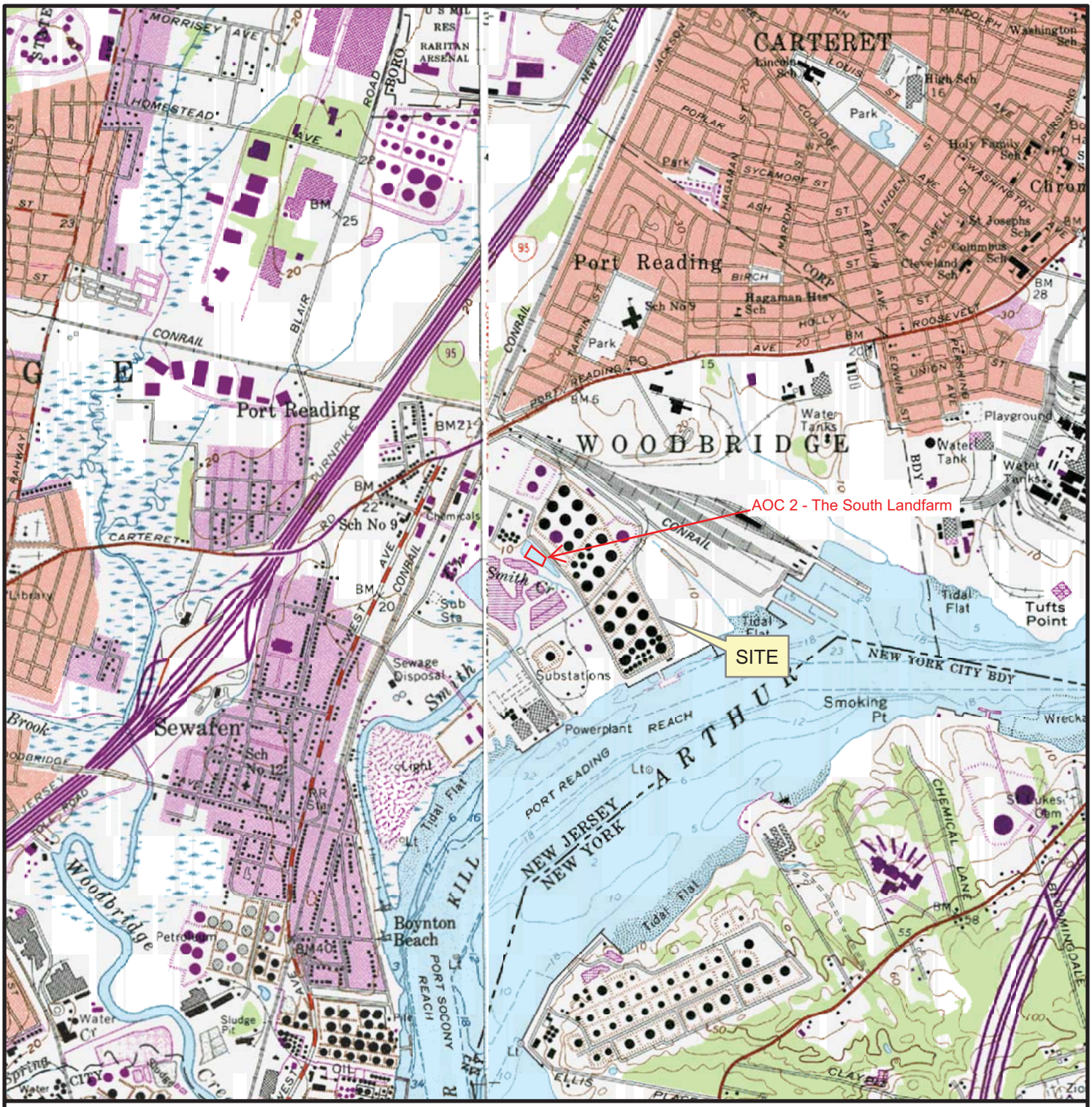
Table 4
Annual Groundwater Summary Data Table
Hess Corporation - Port Reading
750 Cliff Road
Port Reading, Middlesex County, New Jersey

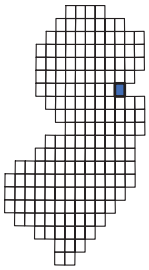
		Metals																		
Sample ID	**Date**	**Beryllium**	**Cadmium**	**Calcium**	**Chromium**	**Cobalt**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Nickel**	**Potassium**	**Selenium**	**Silver**	**Sodium**	**Thallium**	**Vanadium**	**Zinc**
NJDEP GWQS		**NA**	**4**	**NA**	**70**	**100**	**1,300**	**300**	**5**	**NA**	**50**	**2**	**100**	**NA**	**40**	**40**	**50,000**	**2**	**60**	**2,000**
AB-1	5/13/02	NA	NA	78,300	<10	NA	<25	**6,430**	3.9	25,100	**205**	<0.20	NA	115,000	<5.0	NA	**321,000**	NA	<50	30.2
	09/01/09	<1.0	<3.0	22,300	11.9	<50	34	**5,830**	**21**	<5,000	23.5	<0.20	<10	17,500	<10	<10	15,400	<2.0	<50	61.8
	09/08/10	2.8[d]	<6.0[d]	45,000[d]	**98.4**[d]	<100[d]	92.4[d]	**30,600**[d]	**66**[d]	13,800[d]	**119**[d]	<0.20	51.2[d]	39,000[d]	<20[d]	<20[d]	31,600[d]	<4.0[d]	**103**[d]	248[d]
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	84,700	<10	<50	<10	116	<3.0	16,500	<15	<0.20	<10	19,500	<10	<10	**173,000**	<2.0	<50	<20
AB-2	5/13/02	NA	NA	61,100	<10	NA	<25	**16,900**	**11.7**	58,900	**725**	<0.20	NA	21,000	<5.0	NA	**431,000**	NA	<50	50.8
AB-2R	09/01/09	<1.0	<3.0	25,200	<10	<50	21.3	**30,600**	4.5	19,700	**141**	<0.20	<10	13,700	<10	<10	**292,000**	<2.0	<50	25.5
	09/08/10	<1.0	<3.0	11,800	11.7	<50	30.8	**24,400**	**11.2**	10,700	**454**	<0.20	<10	11,600	<10	<10	**115,000**	<2.0	<50	29.9
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	95,300	<10	<50	<10	**9,940**	<3.0	132,000	**452**	<0.20	<10	56,700	<10	<10	**1,760,000**	<2.0	<50	<20
AB-3	5/13/02	NA	NA	43,300	16.9	NA	<25	**100,000**	**10.7**	57,700	**479**	<0.20	NA	26,900	<5.0	NA	**340,000**	NA	<50	35.8
	09/01/09	<1.0	**4.7**	109,000	<10	<50	10.7	**114,000**	4.4	183,000	**364**	<0.20	<10	81,100	<10	<10	**1,070,000**	<4.0	<50	<20
	09/08/10	<1.0	<3.0	122,000	<10	<50	17.5	**82,700**	<3.0	72,000	**3,590**	<0.20	<10	154,000	<10	<10	**1,150,000**	<2.0	<50	37.5
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	29,700	<10	<50	<10	**3,350**	<3.0	15,800	**160**	<0.20	<10	175,000	<10	<10	**149,000**	<2.0	<50	<20
AB-4	5/13/02	NA	NA	52,700	10.3	NA	<25	**16,200**	**10.2**	98,100	**212**	0.2	NA	25,400	<5.0	NA	**409,000**	NA	<50	26.2
	09/01/09	<1.0	<3.0	85,900	<10	<50	10.4	**2,370**	**8.3**	6,600	**362**	<0.20	**115**	68,000	<10	<10	**296,000**	<2.0	<50	528
	09/08/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	**6.4**	183,000	<10	<50	12	**3,320**	<3.0	19,500	**499**	<0.20	24.5	82,500	<10	<10	**91,700**	<2.0	<50	139
AB-5	5/13/02	NA	NA	146,000	<10	NA	<25	**39,700**	4.9	49,800	**879**	<0.20	NA	188,000	<5.0	NA	**822,000**	NA	<50	28.2
	09/01/09	<1.0	<3.0	23,800	<10	<50	<10	**4,600**	4.1	<5,000	38.8	<0.20	<10	<10,000	<10	<10	<10,000	<2.0	<50	<20
	09/08/10	<1.0	<3.0	34,800	<10	<50	53.9	**7,540**	**6**	<5,000	35.8	<0.20	<10	<10,000	<10	<10	12,700	<2.0	<50	26.6
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	75,300	<10	<50	<10	**8,680**	<3.0	28,100	**202**	<0.20	<10	15,700	<10	<10	**85,300**	<2.0	<50	<20
PER-2	5/13/02	NA	NA	24,400	31	NA	63.6	**30,700**	**51.4**	5,330	**263**	<0.20	NA	21,100	5	NA	22,700	NA	**100**	101
	09/02/09	<1.0	<3.0	22,800	<10	<50	17.4	**3,240**	3.1	<5,000	43	<0.20	<10	<10,000	<10	<10	<10,000	<2.0	<50	22.5
	09/09/10	3.9	<3.0	29,800	26	<50	288	**16,800**	**65**	<5,000	**175**	0.41	45.6	<10,000	<10	<10	<10,000	<2.0	<50	735
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	547,000	<10	<50	18.5	**9,320**	<60[c]	158,000	**708**	<0.20	**158**	27,800	<200[c]	<10	**851,000**	<2.0	<50	41.0
PER-3	5/13/02	NA	NA	40,700	<10	NA	<25	**54,000**	**12.2**	60,100	**513**	0.25	NA	32,000	5	NA	**599,000**	NA	<50	40.2
	09/02/09	<1.0	<3.0	18,000	<10	<50	<10	**7,940**	<3.0	9,010	**535**	<0.20	<10	<10,000	<10	<10	**104,000**	<2.0	<50	<20
	09/09/10	<1.0	<3.0	102,000	<10	<50	36.3	**11,200**	4.9	65,300	**1,670**	0.29	<10	15,600	<10	<10	**596,000**	<2.0	<50	29.4
	09/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	1.0	**8.2**	371,000	<10	<50	41.4	**410**	<30[f]	321,000	**1,860**	<0.20	<100[f]	84,400	<10	<10	**2,770,000**	<20[f]	<50	235
PER-4	5/13/02	NA	NA	91,300	<10	NA	<25	**51,400**	<3.0	125,000	**707**	<0.20	NA	49,600	<5.0	NA	**1,190,000**	NA	<50	<20
	08/31/09	<1.0	**7.8**	13,100	<10	<50	19.1	**7,990**	3.8	<5,000	**123**	<0.20	<10	<10,000	<10	<10	**81,600**	<2.0	<50	<20
	09/07/10	<1.0	3.1	25,800	<10	<50	61.1	**16,300**	**15.6**	22,400	**368**	<0.20	10	15,800	<10	<10	**278,000**	<2.0	<50	45.6
	09/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	**51.4**	24,800	<10	<50	<10	**60,300**	**8.3**	12,500	**1,090**	<0.20	<10	10,200	<10	<10	**108,000**	<2.0	<50	254
PER-5	5/13/02	NA	NA	83,000	14.7	NA	29.3	**15,500**	**10.4**	17,800	**372**	<0.20	NA	<5,000	6.5	NA	24,500	NA	<50	49.7
	08/31/09	<1.0	<3.0	20,800	<10	<50	25.9	**580**	<3.0	<5,000	21.2	<0.20	<10	<10,000	<10	<10	30,900	<2.0	<50	<20
	09/08/10	<1.0	<3.0	40,200	<10	<50	54.7	**4,090**	**6.5**	6,680	**101**	0.22	<10	<10,000	<10	<10	38,000	<2.0	<50	48.5
	09/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	32,200	<10	<50	10	287	<3.0	5,320	<15	<0.20	<10	<10,000	<10	<10	14,200	<2.0	<50	32.2
PER-6	5/13/02	NA	NA	26,300	<10	NA	42.9	**5,150**	**9.5**	5,270	**313**	<0.20	NA	<5,000	5	NA	25,800	NA	<50	34.2
PER-6R	08/31/09	<1.0	<3.0	20,700	<10	<50	41.3	**2,570**	**6**	<5,000	**479**	<0.20	<10	12,800	<10	<10	32,400	<2.0	<50	31.5
	09/10/10	<1.0	<3.0	33,800	<10	<50	52	**1,880**	4	7,280	**288**	<0.20	<10	<10,000	<10	<10	26,600	<2.0	<50	30.7
	09/19/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	22,100	<10	<50	13.1	**331**	<3.0	<5,000	<15	<0.20	<10	<10,000	<10	<10	24,000	<2.0	<50	<20
PER-7	5/13/02	NA	NA	19,000	36.7	NA	55.7	**45,600**	**34.1**	18,000	**537**	0.2	NA	15,800	<5.0	NA	**288,000**	NA	<50	98.8
	09/01/09	<1.0	<3.0	20,200	<10	<50	28.7	**7,650**	**9.4**	5,590	**71.3**	<0.20	10	<10,000	<10	<10	**166,000**	<2.0	<50	42.1
	09/08/10	<1.0	<3.0	10,100	21.3	<50	40.8	**25,800**	**33.9**	8,900	**142**	0.21	13.2	<10,000	<10	<10	**152,000**	<2.0	<50	54.1
	09/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	2.8	3.3	283,000	<10	<50	32.1	**2,300**	<3.0	78,400	**427**	<0.20	52.7	13,000	<10	<10	**840,000**	<2.0	<50	223
PER-8	5/13/02	NA	NA	14,600	<10	NA	<25	**12,100**	**14.8**	<5,000	**121**	<0.20	NA	8,920	<5.0	NA	30,200	NA	<50	56.8
	09/01/09	<1.0	**5.8**	16,700	<10	<50	24.1	**3,260**	**10.1**	<5,000	**420**	<0.20	12.4	<10,000	<10	<10	37,300	<2.0	<50	725
	09/08/10	<1.0	<3.0	17,100	<10	<50	26.7	**9,010**	**11.6**	5,890	**197**	<0.20	<10	<10,000	<10	<10	46,500	<2.0	<50	202
	09/21/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	<1.0	<3.0	13,200	<10	<50	<10	**14,000**	**6.1**	6,620	**213**	<0.20	<10	<10,000	<10	<10	**90,300**	<2.0	<50	54.0
PL-1	5/13/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/02/09	<1.0	<3.0	353,000	<10	<50	<10	**18,600**	<3.0	199,000	**720**	<0.20	<10	70,200	<10	<10	**1,540,000**	<2.0	<50	<20
	09/09/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PL-1R	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-2	5/13/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/20/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
PL-3	5/13/02	NA	NA	57,500	31.4	NA	<25	**84,700**	**7.8**	199,000	**209**	<0.20	NA	87,100	9.3	NA	**1,510,000**	NA	<50	37.4
PL-3R	08/31/09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/10	<1.0	<3.0	72,700	<10	<50	42	**35,200**	<3.0	238,000	**277**	<0.20	<10	104,000	<10	<10	**1,870,000**	<2.0	<50	<20
	09/20/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/26/12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

a = Results are from second run
b = Results are from third run
c = Elevated detection limit due to dilution required for high interfering element
d = Elevated sample detection limit due to difficult sample matrix
e = Elevated detection limit due to dilution required for matrix interference (indicated by failing internal standard on original analysis)
f = Detection limit raised due to dilution required for possible matrix interference

etected at a value below the RL and above the M

a = Results are from second run
b = Results are from third run





QUADRANGLE LOCATION:
ARTHUR KILL, NEW JERSEY

0 1,000 2,000 4,000 6,000 8,000 Feet

N W E S

Exhibit B-1	Vicinity Map - AOC 2 - South Landfarm HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	DRAWN BY: B.J.S. DATE: 7/15/10	EnviroTrac ENVIRONMENTAL SERVICES 400E CORPORATE COURT, So. PLAINFIELD NJ 07080 PHONE: (908)757-1900 FAX: (908)757-0017

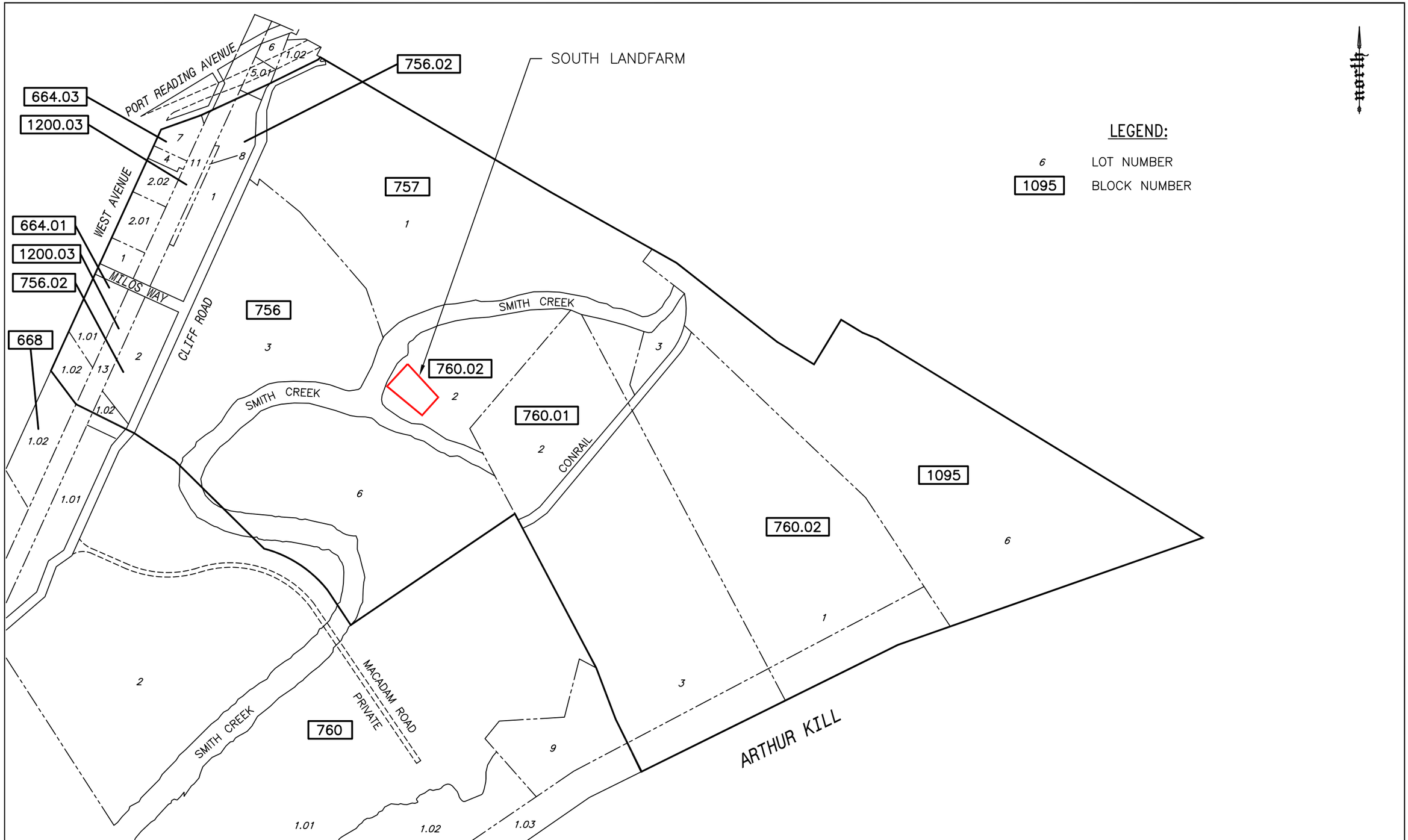


EXHIBIT
B-2

HESS CORPORATION
750 CLIFF ROAD
PORT READING, NEW JERSEY

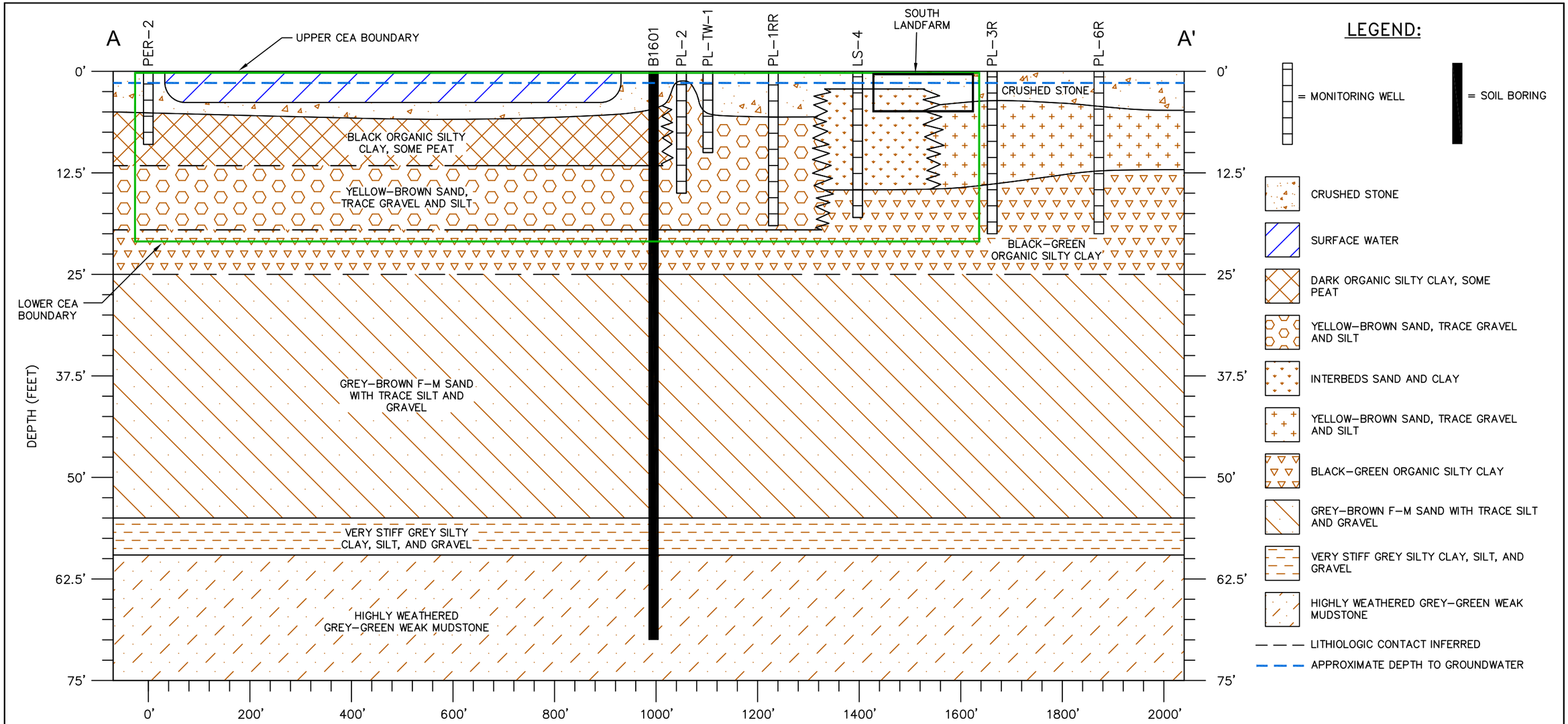
TAX MAP

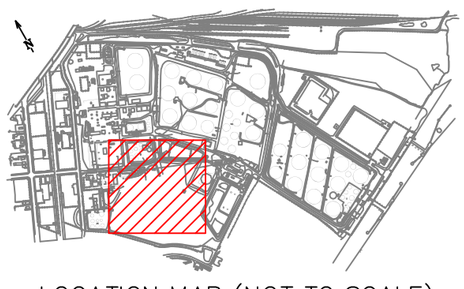
DRAWN BY: J.M.

REVISION DATE: 4/16/13

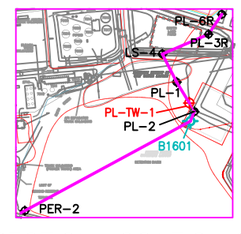
0 250 500
SCALE IN FEET

EnviroTrac
ENVIRONMENTAL SERVICES
3 TERRI LANE, SUITE #8, BURLINGTON, NJ 08016
PHONE: (609)387-5553 FAX: (609)387-5533





LOCATION MAP (NOT TO SCALE)



CROSS SECTION LOCATION (1" = 800')

EXHIBIT				
C-2	HESS CORPORATION 750 CLIFF ROAD PORT READING, NEW JERSEY	HESS	SOUTH LANDFARM CROSS SECTION	VERTICAL SCALE: 1 INCH = 12.5 FEET HORIZONTAL SCALE: 1 INCH = 200 FEET
			DRAWN BY: J.M. / REVISION DATE: 5/6/13	

EnviroTrac
ENVIRONMENTAL SERVICES
400E CORPORATE COURT, So. PLAINFIELD NJ 07080
PHONE: (908)757-1900 FAX: (908)757-0017

LEGEND:

- MONITORING WELL LOCATION
- RECOVERY WELL LOCATION
- HISTORIC SPILL SITES (APPROXIMATE LOCATION)
- LOCATION OF AOC OR SWMU
- TRANS CONTINENTAL PIPELINE (WILLIAMS)
- BUCKEYE PIPELINE
- COLONIAL PIPELINE
- 12" TEXAS EASTERN
- 10" TEXAS EASTERN
- RAILROAD
- SANITARY SEWER
- CATCH BASIN

TOC TOP OF CASING ELEVATION (feet)
DTW DEPTH TO WATER (feet)
GW EL CORRECTED GROUNDWATER ELEVATION (feet)
NM NOT MEASURED

WELL	TOC	DTW	GW EL
AB3	14.62	3.00	11.62
LS1R	14.49	2.92	11.57
LS2	11.69	3.00	8.69
LS3	8.30	1.02	7.28
LS4	11.25	1.78	9.47
PER2	12.91	4.22	8.69
PL1R	9.60	NM	NM
PL2	11.78	1.90	9.88
PL3R	12.27	2.61	9.66
PL4R	12.40	3.26	9.14
PL5	9.08	0.62	8.47
PL6R	11.49	1.95	9.54
PL7	13.06	3.98	9.08
PL8R	11.96	3.98	7.98
PL9R	11.26	1.65	9.61
TM5	18.47	8.15	10.32
TM6R	14.06	5.60	8.46
TM7	17.03	7.36	9.68
TR2R	14.66	4.80	9.87
TR4R	12.10	2.60	99.50
TR4D	12.37	5.50	6.87
TR5	14.09	3.90	10.19
TR6	12.90	3.55	9.35
POND GAUGE	6.37	NM	NM

NOTES:

ALL CONTOURS ARE INFERRED BASED ON THE INTERPOLATION OF FIELD MEASUREMENTS AND KNOWLEDGE OF THE SITE.

TR4D WAS NOT USED TO GENERATE GROUNDWATER CONTOURS.

FIGURE # C-2

HESS CORPORATION
750 CLIFF ROAD
PORT READING, NEW JERSEY

HESS

Proposed CEA Map - Benzene Concentrations Shown

DRAWN BY: J.M.

REVISION DATE: 3/22/13

0 100 200
SCALE IN FEET

EnviroTrac
ENVIRONMENTAL SERVICES
3 TERRI LANE, SUITE #8, BURLINGTON, NJ 08016
PHONE: (609)387-5553 FAX: (609)387-5533