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kwiktag® 120 170 735

October 30, 2008

Mr. Andrew Fan
Project Manager
Technical Support Branch (3LC20)
Land & Chemicals Division
United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Re.: Transmittal of Semi-Annual Groundwater Sampling Lab Reports
Former Chevron 122208, 5801 Riggs Road, Chillum, Maryland

Dear Mr. Fan:

Enclosed please find a CD containing one electronic copy of the laboratory reports from the semi-annual groundwater sampling event that took place in September, 2008 at the Chillum site. As you requested, the reports contain data for full TCL volatile analysis under EPA Method 8260.

If you have any questions, please contact me at (770) 984-3165.

Sincerely,

Denise Dixon
Project Manager

Attachments: CD with Semi-annual Groundwater Sampling Lab Reports

cc: Ms. V. North, DC DOE
Mr. Herb Meade, MDE

Denise Y. Dixon
Project Manager

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October 30, 2008

Mr. Andrew Fan
Project Manager
Technical Support Branch (3LC20)
Land and Chemicals Division
United States Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

RE: Transmittal of Third Quarter 2008 Progress Report
Former Chevron Facility 122208
5801 Riggs Road
Chillum, Maryland

Dear Mr. Fan:

Pursuant to Section VI, Paragraph E of the Administrative Order (U.S. Environmental Protection Agency [EPA] Docket Number RCRA-03-2003-0006th), Chevron is submitting one copy of the referenced document for your review.

If you have any questions, please call me at 770-984-3165.

Sincerely,

Donna Beaver for

Denise Dixon
Project Manager

cc: Ms. V. North, DC DOE
Mr. Herb Meade, MDE
R. Scrafford, GF

QUARTERLY PROGRESS REPORT

FORMER CHEVRON FACILITY NO. 122208
5801 RIGGS ROAD, CHILLUM, MARYLAND
JULY 2008 THROUGH SEPTEMBER 2008

1.0 INTRODUCTION

Pursuant to the U.S. Environmental Protection Agency (EPA) Administrative Order, Docket Number RCRA-03-2003-006th (AO), Chevron U.S.A. Inc. (Chevron) is conducting work at and adjacent to the former Chevron Service Station (Facility No. 122208) located at 5801 Riggs Road, Chillum, Maryland (the site). In accordance with Section VI, paragraph E. of the AO, Chevron has prepared this Quarterly Progress Report (Report) to describe actions taken by Chevron pursuant to the AO. The reporting period for this report is July 2008 through September 2008.

The remainder of this Report is divided into the following seven sections and four appendices:

- Section 2.0 - Work Conducted During the Reporting Period
- Section 3.0 - Summary of Findings
- Section 4.0 - Permit Compliance
- Section 5.0 - Summary of Deviations from Approved Plans, Problems Encountered, and Corrective Actions Taken
- Section 6.0 - Summary of Meetings with Public and Government
- Section 7.0 - Changes in Key Personnel During the Reporting Period
- Section 8.0 - Projected Work for the Next Reporting Period
- Tables
  - Table 1: Summary of Groundwater and Soil Vapor Monitoring Program
- Figures
  - Figure 1: Cumulative Total Hydrocarbons Recovered and Groundwater Treated Since 1990
  - Figures 2-3: Groundwater Potentiometric Surface Maps
- Appendix A - Dual-Phase Extraction System-Groundwater Extraction Data
  - Figure: Process and Instrumentation Diagram
  - Table A-1: Total Fluids Extraction System Data
  - Table A-2: Total Fluids Extraction System Influent Analytical Results
  - Table A-3: Total Fluids Extraction System Effluent Analytical Results
- Appendix B - Dual-Phase Extraction System-Soil Vapor Extraction Data
  - Figure: Process and Instrumentation Diagram
  - Table B-1: Soil Vapor Extraction System Data
  - Table B-2: Soil Vapor Extraction System Influent Analytical Results

2.0 WORK CONDUCTED DURING THE REPORTING PERIOD

This section provides a summary of work conducted at the site during the reporting period.

2.1 Site Monitoring Work Conducted

The EPA-approved Interim Monitoring Sampling Plan calls for monthly gauging of ten monitoring wells, semi-annual gauging of all monitoring wells, semi-annual sampling of 75 monitoring wells, and semi-annual sampling of the four soil vapor wells (Table 1). Monthly groundwater gauging was conducted on July 24, August 25, and September 15, 2008. The September/October 2008 semi-annual sampling event was conducted from September 22 to 25 and September 29 to October 1, 2008.

2.2 Interim Measures Conducted

Several interim measures activities were conducted during the reporting period. These activities are listed below followed by a general description:

- Submission of the Draft Interim Measures Work Plan for Vapor Sampling and Mitigation at Residences; and
- Continued operation and maintenance of the Interim Dual Phase Extraction System (IDPES).

Draft IM Work Plan
Chevron submitted a revised work plan to EPA on April 14, 2008. EPA provided comments on the draft on June 4, 2008. Chevron submitted another revised work plan on July 10, 2008, which was approved by EPA on July 29, 2008.

Overview of the Interim Dual Phase Extraction System
The Interim Dual Phase Extraction System (IDPES) consists of total fluids extraction and treatment and soil vapor extraction and treatment. A process and instrumentation diagram (P&ID) for the system is provided in **Appendix A**. Please refer to the P&ID for specific information, such as equipment models and sizes, piping sizes, controls, and other technical information.

Total Fluids Recovery and Treatment
Pneumatic total fluids (i.e., groundwater and LPH, if present) pumps are installed in seven Dual Phase Extraction (DPE) wells (RW-1, RW-2, RW-3, MW-7, MW-17, PTW-A,

the atmosphere in accordance with MDE Air Quality General Permit to Construct Identification No. 033-9-1160. Treated water from the air stripper is pumped through two bag filters and then through six GAC vessels arranged in three parallel banks of two. Each bank is composed of two GAC vessels in series. The polished effluent flows through buried pipe to a storm drain inlet located in Riggs Road near the intersection at Eastern Avenue, N.E. in accordance with Maryland General Discharge Permit No. 2008 OGR-8514.

Soil Vapor Recovery and Treatment

Soil vapor extraction (SVE) is conducted at eight wells (i.e., the seven DPE wells plus MP-7). An individual piping leg runs from each well to a common 3-inch manifold in the remediation system compound. The manifold leads to a moisture knockout tank and then to the blower. The blower is a rotary lobe, positive displacement blower controlled by a variable frequency drive. Soil vapor is blown from the blower to a catalytic oxidizer for treatment. Treated air is discharged to the atmosphere in accordance with MDE Air Quality General Permit to Construct Identification No. 033-9-1164.

Interim DPE System Monitoring

The IDPES was visited every week during the reporting period. The following activities were conducted during each site visit:

- Recorded groundwater and air flow rates;
- Measured air influent and effluent concentrations using a photoionization detector;
- Recorded the manifold vacuum for the SVE system; and
- Conducted equipment maintenance tasks as needed including checking the oil level of the SVE blower and air compressor, changing out the bag filters, and skimming off LPH in the oil/water separator, if present.

The groundwater influent (SP-1) was sampled three times and the effluent (SP-3) was sampled nine times for laboratory analysis (Tables A-2 and A-3, Appendix A). Effluent groundwater samples were analyzed by EPA Method 8260 for BTEX, MTBE, tetrachloroethene, trichloroethene, and 1,2-cis-dichloroethene. The permit limits are 100 µg/L for total BTEX and 5 µg/L for benzene. The discharge permit requires reporting of MTBE, tetrachloroethene, trichloroethene, and 1,2-cis-dichloroethene concentrations without establishing limits.

The soil vapor extraction system influent (SP-100) and effluent (SP-200) were sampled

3.0 SUMMARY OF FINDINGS

This section provides a summary of findings and results for the interim measures activities described in Section 2.2.

Ongoing Operation of the DPE System

The hour meters for both the total fluids and SVE portions of the DPE system were logged throughout the quarter. For the period from July 1, 2008 through September 30, 2008, the total fluids extraction portion of the system was operating 86 percent of the time (1,841 hours on and 285 hours off) and the SVE portion was operating 59 percent of the time (1,300 hours on and 897 hours off).

Groundwater extraction system performance data are provided in **Appendix A** including date and time, on/off status, totalizer reading, cumulative gallons of hydrocarbons, operating extraction points, and maintenance information for the reporting period and the previous three quarters (September 30, 2007 through September 30, 2008) (Table A-1). Comments on the reason for system downtime and the type of maintenance performed are also provided in Table A-1. A detailed explanation of the tables is provided on the first page of **Appendix A**. A P&ID is also included in **Appendix A**.

The groundwater extraction portion of the DPE system recovered approximately 1,551,925 gallons of groundwater and 11.7 equivalent gallons of dissolved hydrocarbons during the reporting period. The average system flow rate over the period was 14.1 gallons per minute (gpm) when the system was pumping (not including system down time) and 12.2 gpm for the entire period (including down time). The total volume of groundwater pumped from this site since remediation began in 1989 is approximately 38,176,761 gallons.

The analytical results for groundwater samples collected at sample points SP-1 (system influent) (Appendix A, Table A-2) and SP-3 (treated groundwater that is discharged to the storm drain) (Appendix A, Table A-3) indicated concentrations of benzene and BTEX in the treated groundwater were below the permit limits (5 µg/L benzene and 100 µg/L BTEX) during the reporting period.

Soil vapor extraction system performance data for the reporting period are provided in **Appendix B** including date and time, manifold air flow reading, manifold vacuum reading, influent and effluent screening concentrations measured using a PID, cumulative gallons of hydrocarbons recovered, and other information. A detailed explanation of the tables is provided on the first page of **Appendix B**. A P&ID is included in **Appendix A**. The soil vapor extraction portion of the DPE system

vapor that is discharged to the atmosphere) (Appendix B, Table B-3) indicates concentrations of benzene and TRPH in the treated soil vapor were well below the permit limits. The permit limits are 0.02 pounds per hour of benzene and 20 pounds per day of volatile organic compounds measured as TRPH.

Hydrocarbon Recovery Summary for Period and Cumulative Total for System

Period	Liquid-Phase Hydrocarbons (gallons)	Dissolved-Phase Hydrocarbons (eq. gallons)	Vapor-Phase Hydrocarbons (eq. gallons)	Cumulative Total Hydrocarbons (eq. gallons)
07/01/08-09/30/08	0.00	11.7	16.8	28.5
Cumulative Total for System	856.5	714.0	3,678.2	5,248.3

Figure 1 shows the volume of groundwater treated and the corresponding volume of hydrocarbons collected for the entire time the system has been operating on a quarter by quarter basis. The volume of hydrocarbons collected is directly proportional to the volume of groundwater treated.

Groundwater Monitoring

The analytical data from the September/October 2008 semi-annual sampling event are provided in **Appendix C.** The groundwater elevation data for the current period and the previous year are provided in Table C-1 in **Appendix C**. A detailed explanation of the table is provided on the first page of **Appendix C**.

Groundwater potentiometric surface maps were created using data collected during the semi-annual gauging event conducted on September 15, 2008 (Figures 2 and 3).

Soil Vapor Monitoring

The soil vapor analytical results for the current period and the previous year are provided in Table D-1 in **Appendix D**. Water was present in the tubing of soil vapor well VW-4 during the September 2008 sampling event, therefore, no sample was collected. Resampling was attempted on September 23, 2008, however the same conditions existed.

4.0 PERMIT COMPLIANCE

Four permits are required for activities performed at the Chillum site. Two air discharge permits have been issued by MDE covering the effluent of the groundwater air stripping equipment and the effluent of the soil vapor extraction equipment. In addition, another permit was issued by MDE for discharge of treated groundwater. Permit requirements and compliance for the above MDE permits are discussed in Sections 2 and 3. An additional permit required for work in Washington, D.C. is issued by the D.C. Department of Transportation (DCDOT) for Above Ground Public Space occupancy to perform activities such as sampling and gauging of monitoring wells.

Permit numbers 033-9-1160 Air Quality General Permit for effluent of groundwater air stripping equipment and 033-9-1164 Air Quality General Permit for effluent of soil vapor extraction equipment were issued for the site. Neither of these permits has an expiration date. Sampling and monitoring requirements include periodic effluent monitoring as described in Sections 2 and 3.

Permit number 2008-OGR-8514 General Discharge Permit is effective for treated groundwater discharge for the site. This permit became effective on January 31, 2008 and expires on December 12, 2012. The permit requires weekly effluent sampling, system monitoring, and submission of a quarterly Discharge Monitoring Report.

Permit number PA 41221 for Above Ground Public Space Occupancy was issued to cover traffic control requirements for sampling and gauging. The permit expires on March 05, 2009 and is valid for six month periods. Additional permits for installation of the vapor mitigation systems are in the process of being obtained.

5.0 Summary of Deviations from Approved Plans, Problems Encountered, and Corrective Actions Taken

The system shut down on June 28, 2008, due to a failure of a check valve on the air compressor. The valve failure resulted in the compressor motor running nearly constantly, which produced elevated temperatures in the remediation system control room. Several pieces of equipment were damaged by the excessive heat, including the variable frequency drive (VFD) for the SVE blower. The groundwater extraction portion system was restarted on July 8, 2008, after the air compressor was repaired. The SVE system was restarted on July 29, 2008, after a new VFD was installed. To prevent this from reoccurring, Chevron installed a thermocouple in the control room to shut the system down when the temperature in the control room reaches 120°F.

In addition, the pump for well PTW-B failed and could not be repaired by O&M technicians. It was sent back to the manufacturer, where it was rebuilt and re-installed.

6.0 SUMMARY OF MEETINGS WITH PUBLIC AND GOVERNMENT

Monthly public meetings were conducted by the District of Columbia Departments of Environment (DC DOE) and Health (DC DOH) on July 3 and September 4, 2008. DC DOH did not hold a public meeting in August. EPA representatives attended the July and September meetings to engage the public regarding the final remedy for the site. A representative from Chevron attended the monthly meetings on July 3, 2008 and September 4, 2008.

7.0 CHANGES IN KEY PERSONNEL DURING THE REPORTING PERIOD

There were no changes in key Gannett Fleming or Chevron personnel; however Dr. V. Sreenivas, point of contact for DC DOH resigned his position in July 2008. The new point of contact is Victoria North, of the DC DOE.

8.0 PROJECTED WORK FOR THE NEXT REPORTING PERIOD

The following list identifies projected work to be conducted during the next reporting period, which is October through December 2008.

- Monthly monitoring of the IDPES including influent and effluent sampling;
- Weekly sampling of the IDPES effluent to comply with water discharge permits;
- Monthly gauging of select wells near the service station to check for the presence of LPH and to document drawdown caused by the total fluids extraction system;
- Routine operations and maintenance activities for the remediation system;
- Continue semi-annual groundwater sampling event from September 22 to October 2, 2008;
- Sample indoor air in four residences;
- Install vapor mitigation systems in three residences; and
- Continue work on the Corrective Measures Implementation Work Plan.

TABLES

Gannett Fleming

Table 1
Summary of Groundwater and Soil Vapor Monitoring Program
Third Quarter 2008 Report
Former Chevron Facility No. 122208, Chillum, Maryland

Well Identifier	Well Location Category	Petroleum Hydrocarbon Sampling Frequency[2]	Groundwater Gauging Frequency	Comment
GP-27A	Dual-Phase Extraction System	Semi-annual[3]	Monthly	
GP-30A	Dual-Phase Extraction System	Semi-annual	Monthly	
GP-35A	Dual-Phase Extraction System	Semi-annual	Monthly	
GP-38A	Dual-Phase Extraction System	Semi-annual	Monthly	
MP-7	Dual-Phase Extraction System	None	Monthly	Gauge only
MP-20	Dual-Phase Extraction System	None	Semi-annual	Gauge only
MP-30	Dual-Phase Extraction System	None	Semi-annual	Gauge only
MP-40	Dual-Phase Extraction System	None	Semi-annual	Gauge only
MW-5	Dual-Phase Extraction System	Semi-annual	Semi-annual	
MW-7	Dual-Phase Extraction System	Semi-annual	Monthly	Recovery Well
MW-15	Dual-Phase Extraction System	Semi-annual	Semi-annual	
MW-16	Dual-Phase Extraction System	Semi-annual	Monthly	
MW-17	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
MW-18	Dual-Phase Extraction System	Semi-annual	Monthly	
MW-22	Dual-Phase Extraction System	Semi-annual	Monthly	
MW-23	Dual-Phase Extraction System	Semi-annual	Semi-annual	
PTW-A	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
PTW-B	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
RW-1	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
RW-2	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
RW-3	Dual-Phase Extraction System	Semi-annual	Semi-annual	Recovery Well
GP-2E (45-50)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-2E (55-60)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-2F (45-50)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-2F (50-55)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-7A (30-35)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-7A (35-40)	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-24A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-39A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-41A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
GP-44A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-24A	Dissolved Hydrocarbons	Semi-annual	Monthly	
MW-24B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-25A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-25B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-26A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-26B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-27A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-27B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-33A	Dissolved Hydrocarbons	Semi-annual	Semi-annual	Added at the request of EPA
MW-33B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-33C	Dissolved Hydrocarbons	Semi-annual	Semi-annual	Added at the request of EPA
MW-33S	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-38	Dissolved Hydrocarbons	Semi-annual	Semi-annual	
MW-39B	Dissolved Hydrocarbons	Semi-annual	Semi-annual	

Gannett Fleming

Table 1
Summary of Groundwater and Soil Vapor Monitoring Program
Third Quarter 2008 Report
Former Chevron Facility No. 122208, Chillum, Maryland

Well Identifier	Well Location Category	Petroleum Hydrocarbon Sampling Frequency[2]	Groundwater Gauging Frequency	Comment
GP-7A (20-25)	Sentinel	Semi-annual	Semi-annual	
GP-9A (20-25)	Sentinel	Semi-annual	Semi-annual	
GP-11A (20-25)	Sentinel	Semi-annual	Semi-annual	
MW-6	Sentinel	Semi-annual	Semi-annual	
MW-19	Sentinel	Semi-annual	Semi-annual	
MW-20	Sentinel	Semi-annual	Semi-annual	Upgradient
MW-21	Sentinel	Semi-annual	Semi-annual	
MW-28A	Sentinel	Semi-annual	Semi-annual	
MW-28B	Sentinel	Semi-annual	Semi-annual	
MW-29A	Sentinel	Semi-annual	Semi-annual	
MW-29B	Sentinel	Semi-annual	Semi-annual	
MW-30	Sentinel	Semi-annual	Semi-annual	Upgradient
MW-31B	Sentinel	Semi-annual	Semi-annual	
MW-41A	Sentinel	Semi-annual	Semi-annual	
MW-41B	Sentinel	Semi-annual	Semi-annual	
MW-42	Sentinel	Semi-annual	Semi-annual	Upgradient
MW-43A	Sentinel	Semi-annual	Semi-annual	
MW-48	Sentinel	Semi-annual	Semi-annual	
MW-51	Sentinel	Semi-annual	Semi-annual	
MW-53	Sentinel	Semi-annual	Semi-annual	
MW-54	Sentinel	Semi-annual	Semi-annual	
MW-55	Sentinel	Semi-annual	Semi-annual	
VW-1	Soil Vapor	Semi-annual	Semi-annual	
VW-2	Soil Vapor	Semi-annual	Semi-annual	
VW-3	Soil Vapor	Semi-annual	Semi-annual	
VW-4	Soil Vapor	Semi-annual	Semi-annual	

Notes:

1. All groundwater wells will be gauged before they are sampled.
2. Petroleum Hydrocarbons: Benzene, Toluene, Ethylbenzene, Total Xylenes, and MTBE by EPA Method 8260B, and TPH-GRO by EPA Method 8015B
3. Sampling will be conducted in the spring and fall (low and high groundwater conditions).
4. All wells at the site will be gauged in the spring and fall (low and high groundwater conditions).
5. This table is adapted from the Interim Measures Sampling Plan, dated April, 2006.

FIGURES

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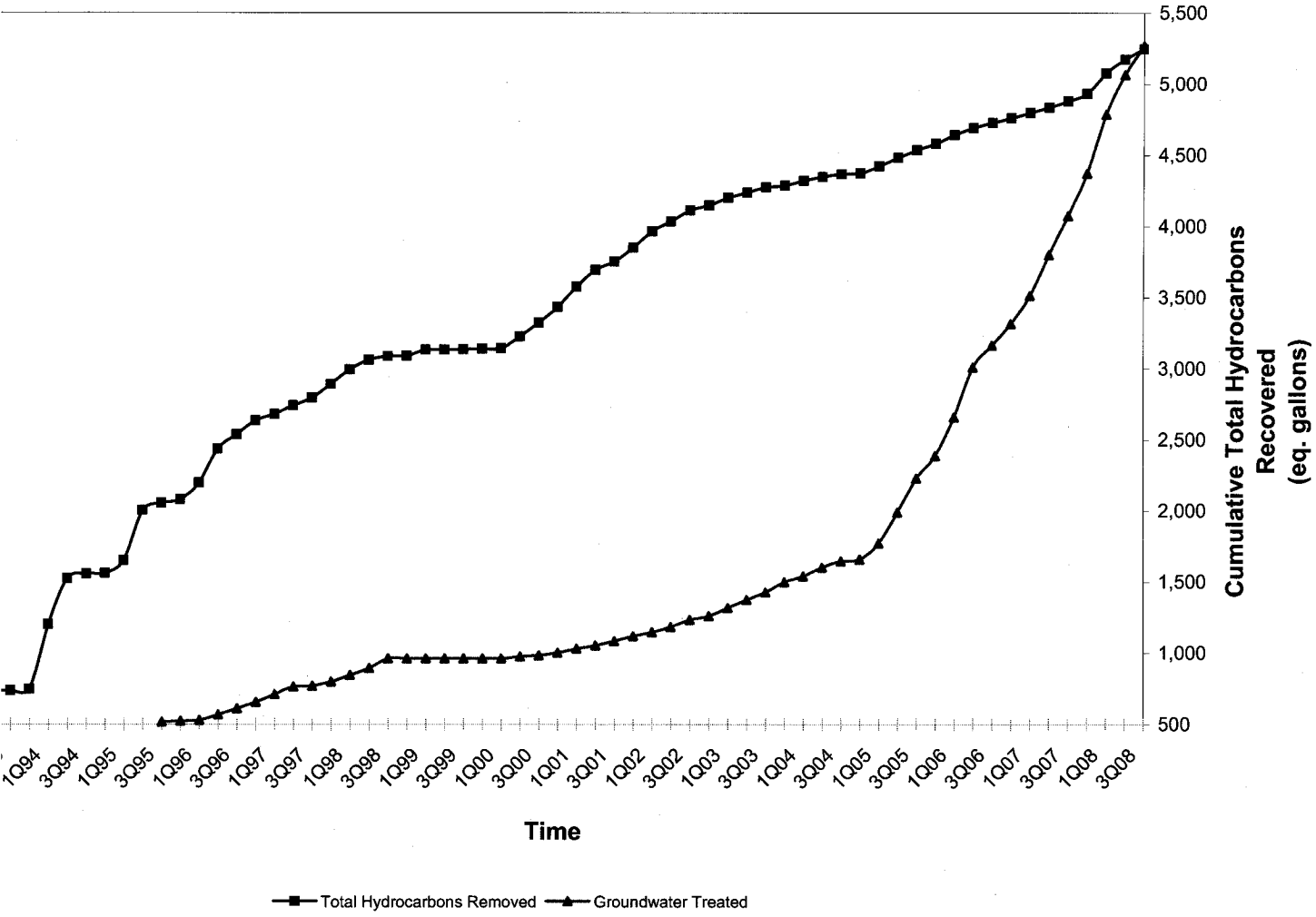
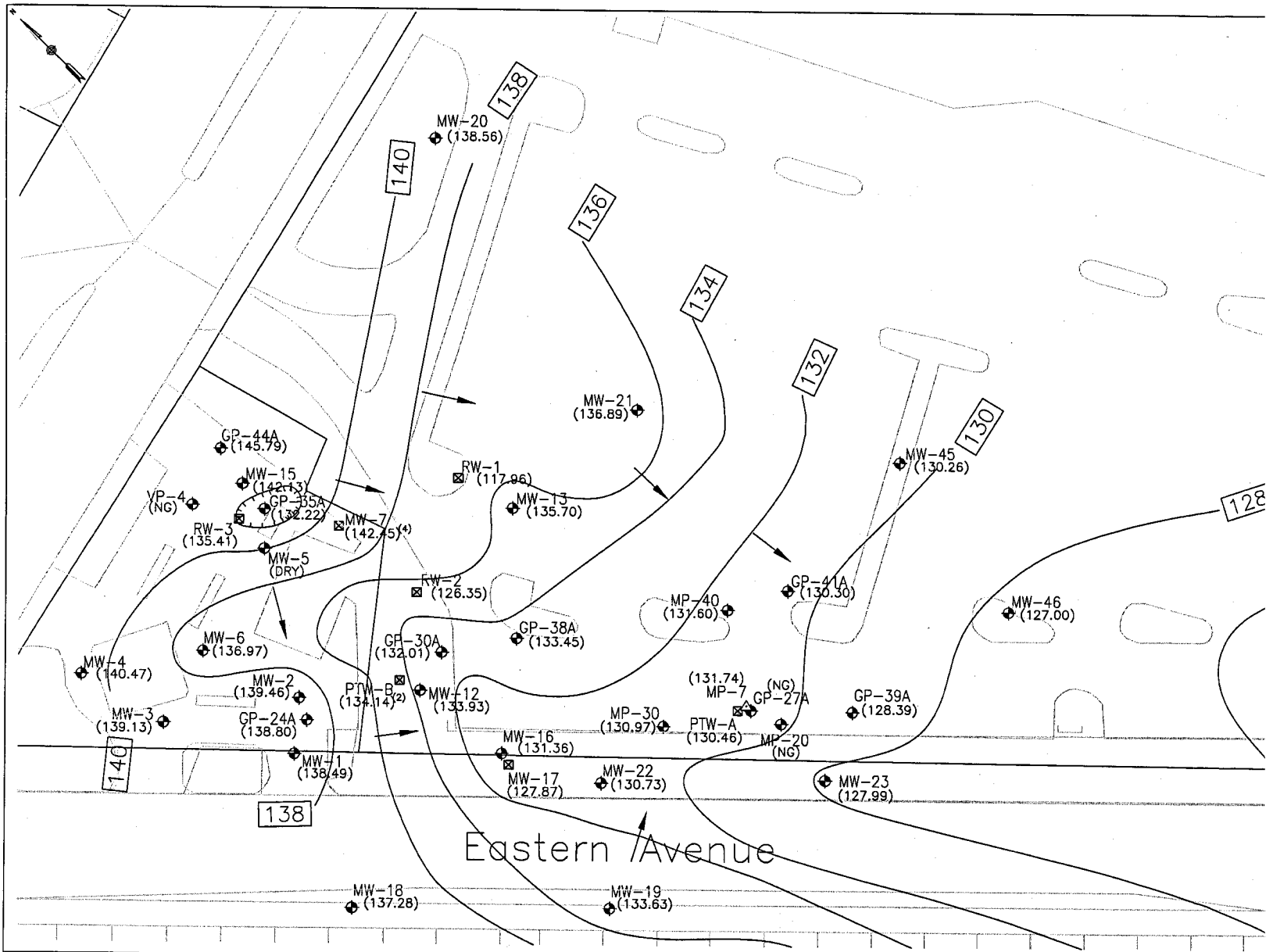
Figure 1
umulative Total Hydrocarbons Recovered and Groundwater Treated Since 1990
Third Quarter 2008 Report
Former Chevron Facility 122208, Chillum, Maryland

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MW-20 (138.56)
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GP-44A (145.79)
MW-15 (142.13)
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VP-4 (NG)
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RW-3 (135.41)
MW-7 (142.45)(4)
MW-5 (DRY)
RW-2 (126.35)
GP-41A (130.30)
MP-40 (131.60)
MW-46 (127.00)
GP-38A (133.45)
MW-6 (136.97)
GP-30A (132.01)
MW-4 (140.47)
MW-2 (139.46)
PTW-B (134.14)(2)
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(131.74)
MP-7
(NG)
GP-27A
GP-39A (128.39)
MW-3 (139.13)
GP-24A (138.80)
MP-30 (130.97)
PTW-A (130.46)
MW-16 (131.36)
MP-20 (NG)
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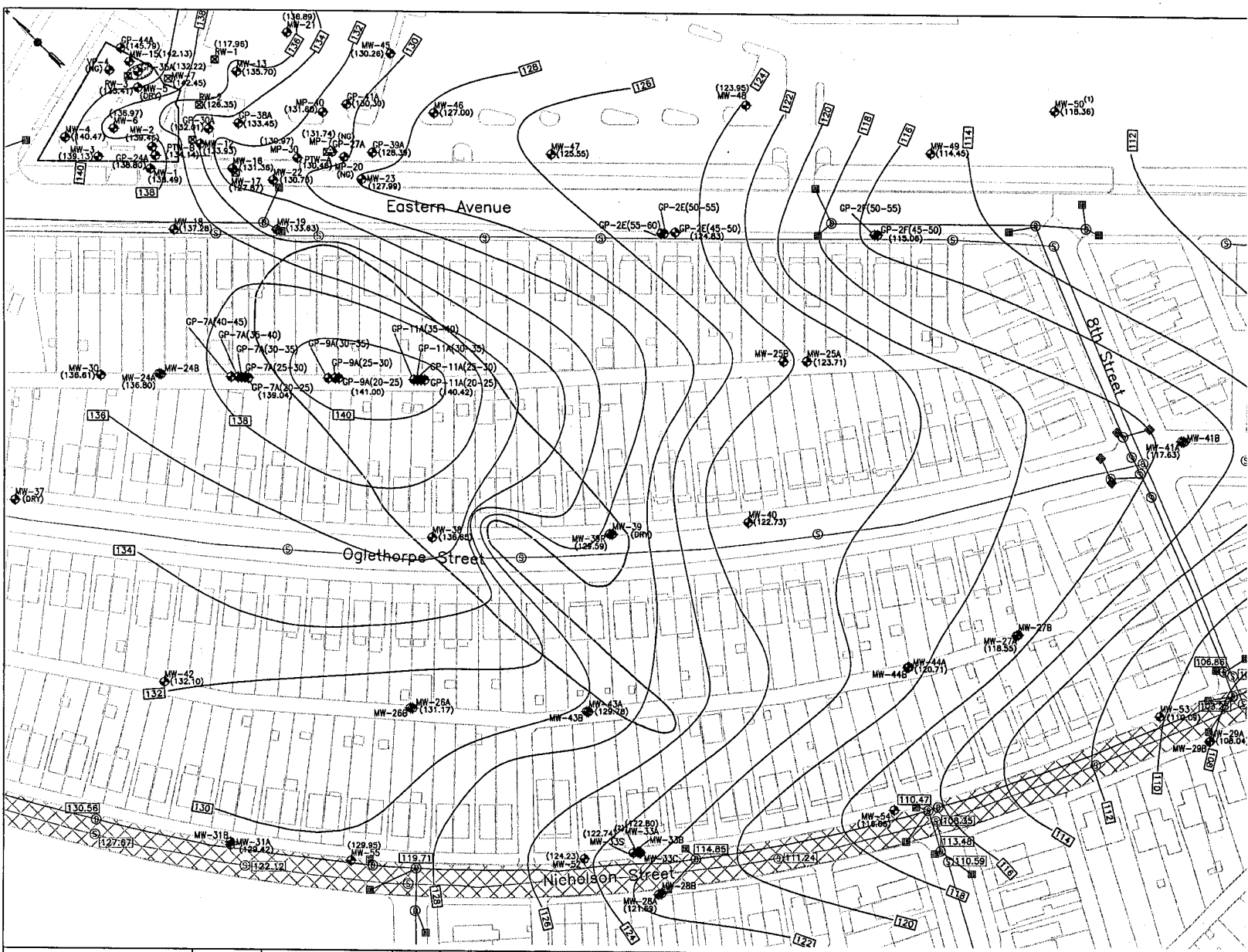

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Gannett Fleming

BALTIMORE, MARYLAND

FIRST QUARTER 2008 PROGRESS REPORT

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APPENDIX A

DUAL-PHASE EXTRACTION SYSTEM – TOTAL FLUIDS EXTRACTION DATA

APPENDIX A

DUAL-PHASE EXTRACTION SYSTEM – TOTAL FLUIDS EXTRACTION DATA

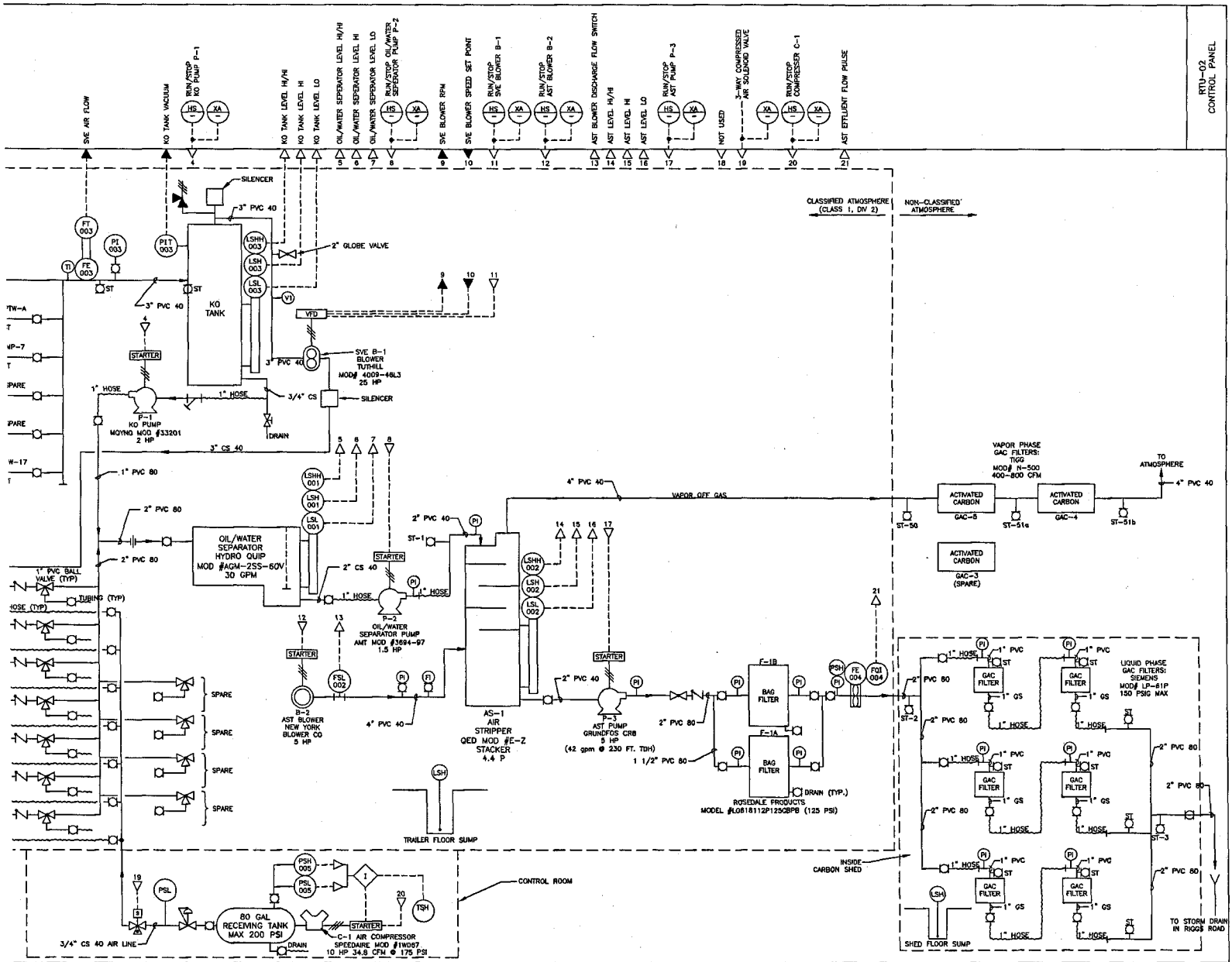
DESCRIPTION OF DATA TABLES

Chevron uses a central database to store remediation system data and laboratory analytical data. The tabulated data in Tables A-1, A-2, and A-3 is an exported summary of the total fluids extraction system data from the database. These data were recorded by the field technician during site visits. The analytical data for influent samples collected for laboratory analysis (Table A-2) are used to calculate the mass (and to estimate the volume) of hydrocarbons recovered in the dissolved phase. Effluent sample data are included in Table A-3 for comparison with permit limits.

The data table includes all system data collected since October 1, 2007. Data collected prior to this date are available in previous progress reports.

The following table lists the column headings in the table with a brief description of each. Please refer to the Process and Instrumentation Diagram (next page) for a schematic of equipment and sample ports.

Column Heading	Description
Date / Time	Date and time data were recorded.
System Status	System ON or OFF when technician recorded the data.
Influent BTEX (µg/L)	Sum of benzene, toluene, ethylbenzene, and total xylenes from influent sample port SP-1.
Effluent BTEX (µg/L)	Sum of benzene, toluene, ethylbenzene, and total xylenes from effluent sample port SP-3.
Treatment Efficiency (%)	Equation: (Influent-Effluent) / (Influent).
Totalizer Reading (gallons)	Reading on the totalizing flow meter.
Pumped Period (gallons)	Equation: (current totalizer reading) – (previous totalizer reading).
Pumped Total (gallons)	Cumulative total gallons of groundwater recovered.
Period Average (GPM)	Equation: (Gallons Pumped During Period) / (current Date-Time – previous Date-Time)
Hydrocarbons Recovered Period (gallons)[1]	Equation: [Avg. Influent BTEX (ug/L)] * e^6 * (1/0.2) * (3.785 L/gal) * (1 lb/453.6 g) * (gallons pumped) * (1 gal/6.26 lbs). NOTE: Formula assumes BTEX equals 20% of gasoline.
Hydrocarbons Recovered Cumulative (gallons)	Equation: (Hydrocarbons Recovered During Period) + (Previous Cumulative)
Operating Extraction Points	Wells in operation during the reporting period.



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Gannett Fleming
BALTIMORE, MARYLAND

CHEVRON PRODUCTS COMPANY
ATLANTA, GEORGIA
FORMER CHEVRON FACILITY NO. 122208
CHILLUM, MARYLAND

INSTRUMENTATION
PROCESS AND INSTRUMENTATION DIAGRAM

JOB No. 44738
DATE 12/20/07
SHEET No. 10
10 of 15

TABLE A-1: TOTAL FLUIDS EXTRACTION SYSTEM DATA
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208, 5801 RIGGS ROAD CHILLUM, MARYLAND
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

6	NS	-	19,167,860	251,784	29,386,879	19.12	-	646.66	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	19,170,774	2,774	29,389,793	46.23	-	653.99	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	19,481,563	0	29,700,582	0.00	-	653.99	Change Filters
6	NS	-	19,167,860	0	29,700,582	0.00	-	653.99	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	19,725,526	554,752	30,258,248	130.07	-	653.99	from EOS
6	NS	-	19,868,377	731	30,401,099	10.44	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	20,004,665	0	30,537,387	0.00	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	20,201,100	195,100	30,733,822	19.18	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
74	0	100.0	20,545,000	56,000	31,077,722	13.37	4.65	662.45	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	20,760,400	212,900	31,293,122	19.69	-	662.45	AST-HH Bag Filters
6	NS	-	20,810,300	49,900	31,343,022	16.36	-	662.45	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	21,371,700	365,900	31,904,422	19.58	-	662.45	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	22,115,600	376,400	32,648,322	19.98	-	671.76	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	22,433,031	205,531	32,965,753	20.09	-	671.76	AST-HH Bag Filters
6	0	100.0	22,520,200	87,169	33,052,922	20.18	5.73	677.49	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	0	-	22,845,800	149,700	33,378,522	20.62	-	677.49	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
57	0	100.0	23,138,200	177,870	33,670,922	20.56	4.10	681.60	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	0	-	23,468,100	210,700	34,000,822	20.19	-	681.60	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
6	NS	-	23,847,978	79,378	34,380,700	19.01	-	681.60	from EOS

TABLE A-1: TOTAL FLUIDS EXTRACTION SYSTEM DATA
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208, 5801 RIGGS ROAD CHILLUM, MARYLAND
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

0	100.0	24,109,100	165,800	34,641,822	19.64	5.67	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	24,325,000	215,900	34,857,722	20.74	-	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	24,325,000	0	34,857,722	0.00	-	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	24,725,425	400,425	35,258,147	38.50	-	687.27	Rem EGS
NS	-	24,751,884	26,459	35,284,606	22.05	-	687.27	AST-HH Bag Filters
0	-	24,751,884	0	35,284,606	0.00	-	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	25,017,023	265,139	35,549,745	20.98	-	687.27	AST-HH Bag Filters
NS	-	25,017,023	0	35,549,745	0.00	-	687.27	GAC Change - O&M
0	100.0	25,017,023	0	35,549,745	0.00	5.99	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	25,206,500	189,477	35,739,222	18.22	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	25,367,800	161,300	35,900,522	18.78	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	25,495,300	127,500	36,028,022	22.41	-	693.27	AST-HH Bag Filters
0	-	25,495,300	0	36,028,022	0.00	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	25,641,800	146,500	36,174,522	21.82	-	693.27	AST-HH Bag Filters
0	-	25,641,800	0	36,174,522	0.00	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	25,807,900	166,100	36,340,622	21.87	-	693.27	AST-HH Bag Filters
0	100.0	25,807,900	0	36,340,622	0.00	9.02	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	25,861,400	53,500	36,394,122	21.42	-	702.28	AST-HH Bag Filters
NS	-	25,861,400	0	36,394,122	0.00	-	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	26,007,600	146,200	36,540,322	21.02	-	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	26,092,114	84,514	36,624,836	22.60	-	702.28	Air Compressor Failure
NS	-	26,092,114	0	36,624,836	0.00	-	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	100.0	26,489,000	396,886	37,021,722	10.65	6.96	709.25	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0	-	26,643,700	154,700	37,176,422	18.16	-	709.25	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS	-	26,753,000	109,300	37,285,722	17.56	-	709.25	Remote shutdown- Check PLC
0	-	26,753,000	0	37,285,722	0.00	-	709.25	RW1 RW2 RW3 MW7 MW17 PTWA
0	100.0	26,909,900	156,900	37,442,622	13.80	2.26	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
0	-	27,033,200	123,300	37,565,922	13.89	-	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
NS	-	27,214,800	181,600	37,747,522	14.24	-	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
0	-	27,236,700	21,900	37,769,422	22.12	-	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
0	-	27,316,400	79,700	37,849,122	12.90	-	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
0	100.0	27,515,100	198,700	38,047,822	13.80	2.51	714.02	RW1 RW2 RW3 MW7 MW17 PTWA
0	-	27,644,039	128,939	38,176,761	12.26	-	714.02	RW1 RW2 RW3 MW7 MW17 PTWA

allons) = (avg. inf. conc.) x (e-6) x (1/0.2) x (3.785 L/gal) x (1 lb/453.6 g) x (gallons pumped) x (1 gal/6.26 lbs).

% of gasoline.

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TABLE A-2: TOTAL FLUIDS EXTRACTION SYSTEM INFLUENT (SP-1) ANALYTICAL RESULTS
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208 5801 RIGGS RD CHILLUM, MD
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

10/10/07 12:01						
11/6/07 13:50	250	410	34	290	984	300
1/15/08 11:30	320	550	36	360	1,266	300
3/6/08 11:06	260	450	37	310	1,057	310
5/15/08 16:40	230	520	54	480	1,284	280
7/24/08 14:50	240	390	31	270	931	240
9/18/08 10:25						
9/18/08 10:55	160	240	17	145	562	260

Notes:
(1) ND: Not Detected above reporting limit.
(2) <##: Parameter not detected above the reporting limit.

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TABLE A-3: TOTAL FLUIDS EXTRACTION SYSTEM EFFLUENT (SP-3) ANALYTICAL RESULTS
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208 5801 RIGGS RD CHILLUM, MD
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

10/10/07 11:50						
11/6/07 13:50	<1	<1	<1	<3	0	12
12/3/07 13:10	< 1			< 3		
1/15/08 11:15	< 1	< 1	< 1	< 3	0	18
2/14/08 13:25	< 1		< 1	< 3		
2/20/08 11:15	< 1	< 1	< 1	< 3	0	16
2/26/08 12:40	< 1			< 3		
3/6/08 10:50	< 1	< 1	< 1	< 3	0	15
3/10/08 12:30	< 1		< 1			
3/17/08 18:00	< 1	< 1	< 1	< 3	0	13
3/28/08 9:00	< 1		< 1	< 3		
4/3/08 14:40	< 1	< 1	< 1	< 3	0	17
4/9/08 11:10	< 1			< 3		
4/16/08 16:35	< 1	< 1	< 1	< 3	0	16
4/23/08 15:00	< 1		< 1	< 3		
5/1/08 11:15	< 1	< 1	< 1	< 3	0	12
5/15/08 16:15	< 1		< 1	< 3		
5/22/08 13:30	< 1	< 1	< 1	< 3	0	< 1
5/29/08 11:05	< 1		< 1	< 3		
6/2/08 14:05	< 1	< 1	< 1	< 3	0	< 1
6/10/08 11:10	< 1		< 1	< 3		
6/17/08 18:05	< 1	< 1	< 1	< 3	0	2.2
6/24/08 13:53	< 1		< 1	< 3		
7/24/08 14:25	< 1	< 1	< 1	< 3	0	6.6
8/4/08 12:25	< 1		< 1	< 3		
8/11/08 14:00	<1	<1	<1	<3	0	8.5
8/18/08 10:10	<1		<1	<3		
8/25/08 11:40	<1	<1	<1	<3	0	6.8
9/1/08 10:10	<1		<1	<3		
9/8/08 14:25	<1	<1	<1	<3	0	7.1
9/15/08 11:00	<1		<1	<3		
9/25/08 14:15	<1	<1	<1	<3	0	4.6

Notes:
(1) ND: Not Detected above reporting limit.
(2) <##: Parameter not detected above the reporting limit.

APPENDIX B

DUAL-PHASE EXTRACTION SYSTEM – SOIL VAPOR EXTRACTION DATA

APPENDIX B

DUAL-PHASE EXTRACTION SYSTEM – SOIL VAPOR EXTRACTION DATA

DESCRIPTION OF DATA TABLES

Overview

Chevron uses a central database to store remediation system data and laboratory analytical data. The tabulated data in Tables B-1, B-2 and B-3 is an exported summary of soil vapor extraction ("SVE") system data from the database. These data were recorded by the field technician during site visits. Analytical data for influent samples collected for laboratory analysis are included in Table B-2 to calculate the mass recovery rates of total petroleum hydrocarbons and benzene. Effluent sample data are included in Table B-3 for comparison with permit limits.

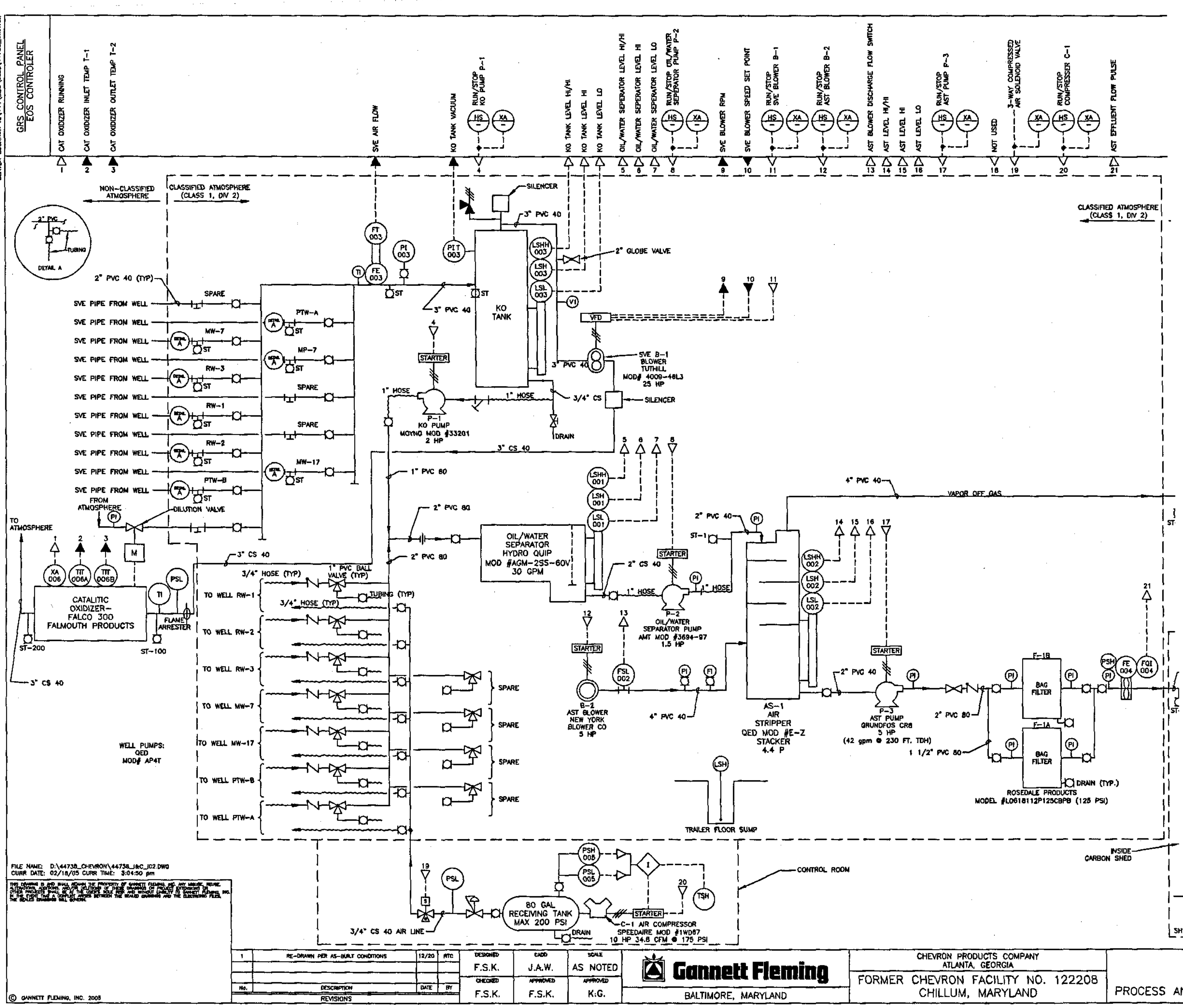
The data tables include all system data collected since October 1, 2007. Data collected prior to this date are available in previous progress reports.

The following table lists the column headings in the table with a brief description of each. Please refer to the Process and Instrumentation Diagram (Appendix A) for a schematic of equipment and sample ports.

Column Heading	Description
Date / Time	Date and time data were recorded.
System Status	System ON or OFF when technician recorded the data.
Hour Meter (hours)	Field measurement of the hour meter.
Manifold Vacuum (in Hg)	Field measurement of vacuum in manifold.
Influent (ppmv)	Field measurement of vapor concentration prior to treatment using a photoionization detector.
Influent (cfm)	Field measurement of total vapor flow in manifold.
Effluent (ppmv)	Field measurement of vapor concentration after treatment using a photoionization detector.
Treatment Efficiency (%)	Equation: (Influent-Effluent) / (Influent).
Hydrocarbons Recovered (lbs/day)[1]	Equation: [(Influent) / (10^{-6})] * [Manifold Extraction-Flow Rate] * CV1
Hydrocarbons Recovered Period (gal)	Equation: [(Avg. Influent) x (10^{-6})] * [Avg. Manifold Extraction-Flow Rate]
Hydrocarbons Recovered Cumulative (gal)	Equation: (Avg. Influent BTEX) * (1 L / 0.26 gal) * (lb/454x10^{6} µg) * (current Total Gallons Pumped – previous Total Gallons Pumped on last sampling date) * (gal hydrocarbons / 6.48 lbs hydrocarbons) * (0.2 gal BTEX / gal hydrocarbons).
Operating Extraction Points	Wells in operation during the reporting period.

Notes

(1) Assumptions: Hydrocarbon molecular weight is 92 grams/mole; vapor behaves like an ideal gas; Average (Avg.) Influent (ppmv) and flow rate (Manifold



FILE NAME: D:\44738_CHEVRON\44738_I&C_I02.DWG
CURR DATE: 02/18/05 CURR TIME: 3:04:50 pm

No.	DESCRIPTION	DATE	BY
1	RE-DRAWN PER AS-BUILT CONDITIONS	12/20	RTC
REVISIONS			

DESIGNED	CADD	SCALE
F.S.K.	J.A.W.	AS NOTED
CHECKED	APPROVED	APPROVED
F.S.K.	F.S.K.	K.G.

Gannett Fleming
BALTIMORE, MARYLAND

CHEVRON PRODUCTS COMPANY
ATLANTA, GEORGIA

FORMER CHEVRON FACILITY NO. 122208
CHILLUM, MARYLAND

PROCESS A

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TABLE B-1: SOIL VAPOR EXTRACTION SYSTEM DATA
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY122208, 5801 RIGGS RD CHILLUM, MD
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

Chevron

ON	17,639.9	13	70	128	30.0	57.1	3.0	0.1	3,389.6	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	17,913.4	14	48	127	24.0	50.0	2.1	4.5	3,394.2	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	18,248.7	13	92	129	44.0	52.2	4.0	4.1	3,400.2	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	18,388.1	14	95	134	42.0	55.8	4.3	3.8	3,404.0	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	18,891.8	15	145	120	74.0	49.0	5.9	12.1	3,421.4	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
OFF	19,075.0	-	-	-	-	-	-	-	3,421.5	AST-HH
ON	19,075.0	14	120	123	38.0	68.3	5.0	7.5	3,429.0	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	19,552.4	14	210	132	63.0	70.0	9.4	18.2	3,454.4	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
ON	20,177.5	13	240	133	95.0	60.4	10.8	22.3	3,497.4	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	20,438.5	14	212	134	92.0	56.6	9.6	17.4	3,514.8	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	20,774.3	14	170	128	87.0	48.8	7.4	14.5	3,533.7	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	21,543.5	13	186	126	80.0	57.0	7.9	32.3	3,580.1	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	22,561.6	13	157	134	65.0	58.6	7.1	34.9	3,629.3	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
OFF	23,427.2	-	-	-	-	-	-	-	3,661.4	VFD damaged in air compressor failure
ON	23,673.8	15	57	74	22.0	61.4	1.4	1.2	3,671.2	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	23,962.5	16	73	74	31.0	57.5	1.8	1.9	3,674.0	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	24,323.1	16	-	74	-	-	-	-	3,675.6	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	24,676.3	16	55	74	25.0	54.5	1.4	1.8	3,678.2	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7

ered are expressed as toluene (MW = 92 g/mol @ 77F).
vered (lbs/day) = (inf. conc.) x (92 g/mol) x (mol/24.45 L) x (e-6) x (inf. flow) x (28.32 L/ft3) x (1440 min/day) x (1 lb/453.6 g).
vered Period (gallons) = (avg. inf. conc.) x (92 g/mol) x (mol/24.45 L) x (e-6) x (avg. inf. flow) x (28.32 L/ft3) x (runtime in minutes) x (1 lb/453.6 g) x (gal/6.39 lb).

Printed on: 10/30/2008

BLE B-2: SOIL VAPOR EXTRACTION SYSTEM INFLUENT (SP-100) ANALYTICAL RESULTS
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY122208, 5801 RIGGS RD CHILLUM, MD
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	8.90	1.40	10.00	520	129	0.0025	6.03
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0	16.00	1.90	14.00	1,200	135	0.0051	14.56
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	18.00	2.10	17.00	970	127	0.0047	11.08
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	5.00	1.00	7.00	1,200	134	Not Calculated	14.46
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	7.00	1.00	8.00	340	74	0.0008	2.26
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	5.00	0.60	4.00	650	74	0.0006	4.32

nc.) x (e-6) x (1 lb/453.6 g) x (flow) x (28.32 L/ft3) x (60 min/hr).
(e-6) x (1 lb/453.6 g) x (flow) x (28.32 L/ft3) x (1440 min/day).
(mol/24.45 L), where MW benzene = 78 and MW TPH = 92.

Printed on: 10/30/2008

LE B-3: SOIL VAPOR EXTRACTION SYSTEM EFFLUENT (SP-200) ANALYTICAL RESULTS
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY122208, 5801 RIGGS RD CHILLUM, MD
PERIOD: OCTOBER 2007 - SEPTEMBER 2008

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	2.00	0.10	1.10	220	129	0.0009	2.55
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	5.90	0.35	2.30	540	135	0.0024	6.55
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	3.60	0.25	2.00	360	127	0.0018	4.11
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	2.00	0.40	2.00	740	134	<0.02	8.91
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	<0.08	<0.09	<0.09	30	74	<0.02	0.20
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
)	2.00	0.30	2.00	360	74	0.0002	2.40

nc.) x (e-6) x (1 lb/453.6 g) x (flow) x (28.32 L/ft3) x (60 min/hr).
(e-6) x (1 lb/453.6 g) x (flow) x (28.32 L/ft3) x (1440 min/day).
(mol/24.45 L), where MW benzene = 78 and MW TPH = 92.

Printed on: 10/30/2008

APPENDIX C

GROUNDWATER MONITORING DATA

APPENDIX C

GROUNDWATER MONITORING DATA

DESCRIPTION OF DATA TABLE

Overview

Chevron uses a central database to store groundwater monitoring data including laboratory analytical data. The tabulated data in **Appendix C** (Table C-1) is an exported summary of groundwater elevation data and analytical data for the period beginning on October 1, 2007, and ending on September 30, 2008 (reporting period plus previous four quarters). Groundwater elevation data were measured using an interface probe in wells near the Service Station and a water level indicator at all other locations.

The following table lists the column headings in the table with a brief description of each.

Column Heading	Description
Date	Date data were recorded.
DTL (ft)	Depth to LPH (ft)
DTW (ft)	Depth to groundwater (ft)
LPH Thick. (ft)	Equation: (DTW-DTL)
GW Elev. (ft)	Corrected water table elevation equation: (TOC) – (DTW) + [(0.75)*(LPH Thickness)]
LPH Recovery	Liquid Phase Hydrocarbons Recovery
Benzene (µg/L)	Laboratory reported concentration
Toluene (µg/L)	Laboratory reported concentration
Ethylbenzene (µg/L)	Laboratory reported concentration
Total Xylenes (µg/L)	Laboratory reported concentration
MTBE (µg/L)	Laboratory reported concentration
TPH-GRO (µg/L)	Laboratory reported concentration

Table C-1. GROUNDWATER MONITORING DATA
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208
5801 RIGGS ROAD, CHILLUM, MARYLAND

Chevron

30/2008

PH ick. (ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	123.25				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	124.83				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	[illegible]				No Analytical Results				
---	124.81				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	123.24				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	124.70				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	113.91				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	115.06				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	114.10				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	115.31				No Analytical Results				
---	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Abbreviations:

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Table C-1. GROUNDWATER MONITORING DATA
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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
--	138.04		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
--	137.53				No Analytical Results				
--	138.43		ND (1)	ND (1)	ND (1)	ND (2)	ND	1.3 (1)	ND (100)
--	139.04				No Analytical Results				
--	138.87		ND (1)	ND (1)	ND (1)	NA	ND	1.0 (1)	ND (100)
--	137.42				No Analytical Results				
--	138.77				No Analytical Results				
--	136.65		12.0 (1)	ND (1)	ND (1)	2.9 (2)	14.9	11.0 (1)	ND (100)
--	135.91				No Analytical Results				
--	135.36		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
--	136.79				No Analytical Results				
--	136.62		1.7 (1)	ND (1)	ND (1)	NA	1.7	1.8 (1)	ND (100)
--	136.50		380.0 (2)	7.0 (2)	92.0 (2)	290.0 (4)	769.0	250.0 (2)	3,800.0 (200)
--	134.86				No Analytical Results				
--	135.86		280.0 (2)	6.0 (2)	50.0 (2)	150.0 (4)	486.0	180.0 (2)	2,700.0 (500)
--	136.40				No Analytical Results				
--	136.32		380.0 (5)	6.7 (5)	66.0 (5)	NA	452.7	310.0 (5)	2,000.0 (100)
--	134.88				No Analytical Results				
--	136.39				No Analytical Results				
--	139.51		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)

Abbreviations:

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FORMER CHEVRON FACILITY 122208
5801 RIGGS ROAD, CHILLUM, MARYLAND

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.PH nick. (ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
---	[illegible]				No Analytical Results				
---	140.83		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	[illegible]				No Analytical Results				
---	140.89		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
---	136.37				No Analytical Results				
---	138.99				No Analytical Results				
---	[illegible]				No Analytical Results				
---	136.89				No Analytical Results				
---	[illegible]		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	139.57				No Analytical Results				
---	[illegible]		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	140.42				No Analytical Results				
---	[illegible]		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
---	[illegible]				No Analytical Results				
---	[illegible]				No Analytical Results				
---	137.12				No Analytical Results				
---	[illegible]				No Analytical Results				
---	129.18				No Analytical Results				

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Table C-1. GROUNDWATER MONITORING DATA
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208
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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
--	137.97				No Analytical Results				
--	138.13		ND (1)	ND (1)	10.0 (1)	40.0 (2)	50.0	ND (1)	1,700.0 (100)
--	138.80				No Analytical Results				
22	129.55	0.02			No Analytical Results				
27	127.95	0.05			No Analytical Results				
ssible									
02	128.83	0.01			No Analytical Results				
16	127.24				No Analytical Results				
13	127.23				No Analytical Results				
overed by car									
--	130.14				No Analytical Results				
d by car									
--	130.25				No Analytical Results				
l By Car									
--	130.98		5,200.0 (100)	16,000.0 (100)	2,500.0 (100)	NA	23,700.0	3,100.0 (100)	110,000.0 (10000)
--	128.40				No Analytical Results				
--	128.27				No Analytical Results				
--	128.44				No Analytical Results				
--	128.12				No Analytical Results				
--	127.96				No Analytical Results				
--	128.86		9,100.0 (200)	11,000.0 (200)	920.0 (200)	5,800.0 (400)	26,820.0	49,000.0 (200)	72,000.0 (5000)
--	129.84				No Analytical Results				
--	129.92				No Analytical Results				
--	130.33				No Analytical Results				
--	132.13				No Analytical Results				
--	132.01				No Analytical Results				

Abbreviations:

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Chevron

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.PH ɿick. (ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
[redacted]									
---	134.91		14,000.0 (250)	[illegible] (250)	600.0 (250)	NA	28,600.0	47,000.0 (250)	130,000.0 (5000)
[redacted]									
---	128.02				No Analytical Results				
---	128.97				No Analytical Results				
---	128.93				No Analytical Results				
---	128.99				No Analytical Results				
---	129.01				No Analytical Results				
---	127.73		42.0 (1)	57.0 (1)	13.0 (1)	76.0 (2)	188.0	21.0 (1)	200.0 (100)
---	132.44				No Analytical Results				
---	128.70				No Analytical Results				
---	128.61				No Analytical Results				
---	132.67				No Analytical Results				
---	132.22				No Analytical Results				
[redacted]									
---	131.55				No Analytical Results				
---	129.98				No Analytical Results				
---	129.99				No Analytical Results				
---	130.45				No Analytical Results				
---	129.90				No Analytical Results				
---	131.70		150.0 (2)	280.0 (2)	10.0 (2)	260.0 (4)	700.0	ND (2)	4,800.0 (500)
---	132.61				No Analytical Results				
---	133.46				No Analytical Results				
---	134.31				No Analytical Results				
---	134.38				No Analytical Results				
---	135.45				No Analytical Results				
---	135.66		3.4 (2)	5.1 (2)	4.0 (2)	NA	12.5	ND (2)	6,000.0 (100)
[redacted]									
---	126.44				No Analytical Results				

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
--	**126.42**		**2,100.0 (20)**	**620.0 (20)**	**92.0 (20)**	**980.0 (40)**	**3,792.0**	**5,400.0 (20)**	**7,000.0 (500)**
--	128.39				No Analytical Results				
--	**128.70**		**2,100.0 (25)**	**540.0 (25)**	**66.0 (25)**	**NA**	**2,706.0**	**4,800.0 (25)**	**11,000.0 (2000)**
--	**128.42**				**No Analytical Results**				
--	128.38		ND (1)	ND (1)	ND (1)	ND (2)	ND	4.1 (1)	ND (100)
--	**130.30**				**No Analytical Results**				
--	130.08		1.5 (1)	ND (1)	ND (1)	NA	1.5	5.4 (1)	ND (100)
--	**145.48**				**No Analytical Results**				
--	145.49		ND (2)	37.0 (2)	220.0 (2)	1,100.0 (4)	1,357.0	ND (2)	6,000.0 (500)
--	**145.79**				**No Analytical Results**				
--	145.85		ND (5)	37.0 (5)	290.0 (5)	NA	327.0	ND (5)	7,500.0 (500)
--	**131.60**				**No Analytical Results**				
--	131.07				No Analytical Results				
--	**130.58**				**No Analytical Results**				
07	130.62	0.01			No Analytical Results				
80	**127.90**				**No Analytical Results**				
--	133.05				No Analytical Results				
--	**132.85**				**No Analytical Results**				
01	132.80	-			No Analytical Results				
--	**133.56**				**No Analytical Results**				
--	131.74				No Analytical Results				
--	**127.49**				**No Analytical Results**				
l By Car									

Abbreviations:

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LPH hick. (ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
[redacted]									
---	130.97				No Analytical Results				
[redacted]									
---	131.60				No Analytical Results				
[redacted]									
---	138.49				No Analytical Results				
[redacted]									
---	139.46				No Analytical Results				
[redacted]									
---	139.13				No Analytical Results				
[redacted]									
---	140.47				No Analytical Results				
[redacted]									
Dry									
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Abbreviations:

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
--	**135.25**		**3.2 (1)**	**ND (1)**	**ND (1)**	**ND (2)**	**3.2**	**ND (1)**	**ND (100)**
--	136.97				No Analytical Results				
--	**119.91**				**No Analytical Results**				
--	119.91				No Analytical Results				
--	**119.86**				**No Analytical Results**				
--	119.86				No Analytical Results				
--	**119.91**				**No Analytical Results**				
--	119.86		700.0 (10)	1,300.0 (10)	94.0 (10)	1,200.0 (20)	3,294.0	420.0 (10)	4,600.0 (500)
--	**119.91**				**No Analytical Results**				
--	119.91				No Analytical Results				
--	**119.91**				**No Analytical Results**				
--	119.91				No Analytical Results				
--	**142.45**				**No Analytical Results**				
--	**127.53**				**No Analytical Results**				
--	133.93				No Analytical Results				
--	**135.59**				**No Analytical Results**				
--	135.70				No Analytical Results				
--	**141.76**				**No Analytical Results**				
--	141.78		8.6 (1)	47.0 (1)	22.0 (1)	65.0 (2)	142.6	ND (1)	900.0 (100)
--	**142.13**				**No Analytical Results**				
--	142.07		7.9 (1)	16.0 (1)	23.0 (1)	NA	46.9	ND (1)	710.0 (100)

Abbreviations:

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
	[illegible]		2,400.0 (10)	[illegible]	[illegible]	540.0 (20)	3,249.9	[illegible]	6,700.0 (1000)
---	130.61				No Analytical Results				
---	[illegible]				No Analytical Results				
---	130.67				No Analytical Results				
---	[illegible]				No Analytical Results				
---	130.70				No Analytical Results				
---	[illegible]				No Analytical Results				
Dry									
---	[illegible]				No Analytical Results				
---	132.02				No Analytical Results				
---	[illegible]				No Analytical Results				
---	131.36				No Analytical Results				
---	131.65		4,700.0 (100)	13,000.0 (100)	1,400.0 (100)	NA	19,100.0	560.0 (100)	38,000.0 (2000)
---	126.32		6,600.0 (50)	13,000.0 (50)	[illegible] (50)	8,000.0 (200)	28,900.0	7,900.0 (50)	50,000.0 (5000)
---	126.27				No Analytical Results				
---	126.05		1,500.0 (25)	3,100.0 (25)	[illegible] (25)	2,200.0 (50)	7,110.0	1,600.0 (25)	30,000.0 (5000)
---	127.87				No Analytical Results				
---	137.59		ND (10)	480.0 (10)	550.0 (10)	6,100.0 (20)	7,140.0	ND (10)	24,000.0 (5000)
---	136.65				No Analytical Results				
---	[illegible]				No Analytical Results				
---	134.51				No Analytical Results				
---	[illegible]				No Analytical Results				
---	134.68				No Analytical Results				
---	[illegible]		[illegible] (10)	[illegible] (10)	[illegible] (10)	[illegible] (20)	[illegible]	ND (10)	26,000.0 (1000)
---	138.51				No Analytical Results				
---	[illegible]				No Analytical Results				
---	138.20				No Analytical Results				

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5801 RIGGS ROAD, CHILLUM, MARYLAND

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PH ck. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
-	137.70				No Analytical Results				
-	137.28				No Analytical Results				
-	137.13		6.1 (20)	670.0 (20)	270.0 (20)	NA	946.1	ND (20)	27,000.0 (10000)
-	132.61		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	131.51				No Analytical Results				
-	131.23		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	133.63				No Analytical Results				
-	133.80		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
-	137.89				No Analytical Results				
-	137.98		2.0 (1)	ND (1)	ND (1)	ND (2)	2.0	ND (1)	140.0 (100)
-	138.66				No Analytical Results				
-	138.70				No Analytical Results				
-	136.11				No Analytical Results				
-	136.41		8.6 (1)	ND (1)	ND (1)	6.7 (2)	15.3	19.0 (1)	110.0 (100)
-	136.89				No Analytical Results				
-	137.21		10.0 (1)	18.0 (1)	7.1 (1)	NA	35.1	15.0 (1)	430.0 (100)
-	129.78		7,000.0 (100)	18,000.0 (100)	1,800.0 (100)	12,000.0 (200)	38,800.0	1,000.0 (100)	65,000.0 (5000)
-	129.42				No Analytical Results				
-	129.19				No Analytical Results				
-	129.33				No Analytical Results				
-	128.90				No Analytical Results				
-	129.02				No Analytical Results				
-	128.70		4,900.0 (100)	12,000.0 (100)	1,200.0 (100)	8,200.0 (200)	26,300.0	710.0 (100)	46,000.0 (2000)

Abbreviations:

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
---	129.70				No Analytical Results				
---	130.02				No Analytical Results				
---	130.31				No Analytical Results				
---	130.96				No Analytical Results				
---	130.73				No Analytical Results				
---	131.14		1,100.0 (5)	730.0 (5)	95.0 (5)	NA	1,925.0	1,100.0 (5)	4,400.0 (100)
---	126.21				No Analytical Results				
---	127.99				No Analytical Results				
---	127.79					NA			
---	136.23				No Analytical Results				
---	135.66				No Analytical Results				
---	135.16				No Analytical Results				
---	135.70				No Analytical Results				
---	135.30				No Analytical Results				
---	135.68								
---	137.61				No Analytical Results				
---	137.59				No Analytical Results				
---	137.51				No Analytical Results				
---	137.10				No Analytical Results				
---	136.80				No Analytical Results				
---	136.85								

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5801 RIGGS ROAD, CHILLUM, MARYLAND

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PH ck. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
-	135.94				No Analytical Results				
-	135.24		110.0 (20)	1,900.0 (20)	750.0 (20)	7,200.0 (40)	9,960.0	ND (20)	26,000.0 (1000)
-	136.78				No Analytical Results				
-	136.69		ND (20)	110.0 (20)	460.0 (20)	NA	570.0	ND (20)	22,000.0 (500)
-	123.19		ND (1)	ND (1)	ND (1)	ND (2)	ND	5.8 (1)	ND (100)
-	122.58				No Analytical Results				
-	122.68		ND (1)	ND (1)	ND (1)	ND (2)	ND	36.0 (1)	ND (100)
-	123.71				No Analytical Results				
-	123.67		ND (1)	ND (1)	ND (1)	NA	ND	4.6 (1)	ND (100)
-	123.31		340.0 (2)	ND (2)	ND (2)	43.0 (4)	383.0	490.0 (2)	1,100.0 (100)
-	123.26				No Analytical Results				
-	122.76		180.0 (2)	ND (2)	ND (2)	27.0 (4)	207.0	310.0 (2)	520.0 (100)
-	123.11				No Analytical Results				
-	124.01		240.0 (2)	ND (2)	ND (2)	NA	240.0	350.0 (2)	990.0 (100)
-	130.05		ND (1)	ND (1)	ND (1)	ND (2)	ND	1.7 (1)	ND (100)
-	131.75				No Analytical Results				
-	131.25		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	131.17				No Analytical Results				
-	130.93		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
-	127.80		110.0 (1)	ND (1)	ND (1)	5.2 (2)	115.2	230.0 (1)	380.0 (100)
-	128.88				No Analytical Results				
-	129.11		94.0 (1)	ND (1)	ND (1)	5.2 (2)	99.2	170.0 (1)	270.0 (100)
-	125.09				No Analytical Results				

Abbreviations:

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LPH: Liquid Phase Hydrocarbons
GW Elev: Groundwater Elevation

TOC: Top of Casing
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Table C-1. GROUNDWATER MONITORING DATA
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30/2008

PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
--	132.26		110.0 (1)	ND (1)	ND (1)	NA	110.0	200.0 (1)	490.0 (100)
--	117.88		ND (1)	ND (1)	ND (1)	ND (2)	ND	44.0 (1)	ND (100)
---	117.73		No Analytical Results						
--	117.65		ND (1)	ND (1)	ND (1)	ND (2)	ND	52.0 (1)	ND (100)
---	118.55		No Analytical Results						
--	118.43		ND (1)	ND (1)	ND (1)	NA	ND	23.0 (1)	ND (100)
--	115.40		82.0 (1)	ND (1)	ND (1)	13.0 (2)	95.0	310.0 (2)	460.0 (100)
---	115.61		No Analytical Results						
--	115.55		34.0 (1)	ND (1)	ND (1)	5.2 (2)	39.2	240.0 (2)	280.0 (100)
---	116.04		No Analytical Results						
--	116.45		37.0 (1)	ND (1)	ND (1)	NA	37.0	240.0 (1)	380.0 (100)
--	121.66		ND (1)	ND (1)	ND (1)	ND (2)	ND	2.1 (1)	ND (100)
---	121.60		No Analytical Results						
--	121.51		ND (1)	ND (1)	ND (1)	ND (2)	ND	1.9 (1)	ND (100)
---	121.69		No Analytical Results						
--	121.64		ND (1)	ND (1)	ND (1)	NA	ND	1.8 (1)	ND (100)
--	120.68		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	120.82		No Analytical Results						
--	120.76		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	121.18		No Analytical Results						
--	121.09		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)

Abbreviations:

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Table C-1. GROUNDWATER MONITORING DATA
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5801 RIGGS ROAD, CHILLUM, MARYLAND

Chevron

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PH ck. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
-	107.66		ND (1)	ND (1)	ND (1)	ND (2)	ND	14.0 (1)	ND (100)
-	108.00		No Analytical Results						
-	107.89		ND (1)	ND (1)	ND (1)	ND (2)	ND	8.5 (1)	ND (100)
-	108.04		No Analytical Results						
-	107.97		ND (1)	ND (1)	ND (1)	NA	ND	9.4 (1)	ND (100)
-	108.67		ND (1)	ND (1)	ND (1)	ND (2)	ND	76.0 (1)	ND (100)
-	108.74		No Analytical Results						
-	108.76		ND (1)	ND (1)	ND (1)	ND (2)	ND	75.0 (1)	ND (100)
-	108.92		No Analytical Results						
-	109.00		ND (1)	ND (1)	ND (1)	NA	ND	74.0 (1)	ND (100)
-	136.83		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	135.09		No Analytical Results						
-	135.10		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	136.61		No Analytical Results						
-	136.51		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
-	129.62		No Analytical Results						
-	129.42		No Analytical Results						
-	131.35		1.3 (1)	ND (1)	ND (1)	ND (2)	1.3	1.2 (1)	ND (100)
-	130.33		No Analytical Results						
-	130.28		ND (1)	ND (1)	ND (1)	ND (2)	ND	1.2 (1)	ND (100)
-	127.67		No Analytical Results						
-	130.56		ND (1)	ND (1)	ND (1)	NA	ND	1.2 (1)	ND (100)

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Table C-1. GROUNDWATER MONITORING DATA
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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
					No Analytical Results				
---	122.98				No Analytical Results				
					No Analytical Results				
---	122.48		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
					No Analytical Results				
---	122.49		ND (1)	ND (1)	ND (1)	NA	ND	1.1 (1)	ND (100)
---	121.10		540.0 (2)	ND (2)	ND (2)	ND (4)	540.0	610.0 (2)	1,600.0 (100)
---	121.37				No Analytical Results				
---	121.29		520.0 (2)	ND (2)	ND (2)	ND (4)	520.0	400.0 (2)	1,000.0 (100)
---	122.53				No Analytical Results				
---	121.40		340.0 (2)	ND (2)	ND (2)	NA	340.0	230.0 (2)	1,000.0 (100)
					No Analytical Results				
---	121.00		13.0 (1)	ND (1)	ND (1)	ND (2)	13.0	37.0 (1)	ND (100)
					No Analytical Results				
---	121.24		12.0 (1)	ND (1)	ND (1)	NA	12.0	35.0 (1)	ND (100)
			ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
---	123.58				No Analytical Results				
			ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
t Find Well									
			ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
	38.24				No Analytical Results				

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Printed On: 10/30/2008

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PH ick. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
–	98.34				No Analytical Results				
–	97.85				No Analytical Results				
–	98.61				No Analytical Results				
ry									
ry									
–	135.55		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
–	136.23				No Analytical Results				
–	136.38		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
–	136.65				No Analytical Results				
–	136.50		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
ry									
ry									
–	128.60		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
–	128.93				No Analytical Results				
–	128.95		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
–	129.59				No Analytical Results				
–	129.17		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
–	122.02		ND (1)	ND (1)	ND (1)	ND (2)	ND	8.6 (1)	ND (100)
–	121.66				No Analytical Results				

Abbreviations:

nthesis.	DTL: Depth to LPH	TOC: Top of Casing
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Table C-1. GROUNDWATER MONITORING DATA
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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	122.73		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	116.81		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	117.63		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	115.94		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	117.99		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	131.45		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	132.10		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	130.46		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
---	129.78		No Analytical Results						
	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Abbreviations:

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FORMER CHEVRON FACILITY 122208
5801 RIGGS ROAD, CHILLUM, MARYLAND

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PH ck. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
-	124.71		2.3 (1)	ND (1)	ND (1)	ND (2)	2.3	17.0 (1)	ND (100)
-	124.79		8.6 (1)	ND (1)	ND (1)	ND (2)	8.6	40.0 (1)	ND (100)
-	125.36				No Analytical Results				
-	124.38		4.3 (1)	ND (1)	ND (1)	NA	4.3	21.0 (1)	ND (100)
-	120.00		ND (1)	ND (1)	ND (1)	ND (2)	ND	42.0 (1)	ND (100)
-	120.15				No Analytical Results				
-	120.11		ND (1)	ND (1)	ND (1)	ND (2)	ND	100.0 (1)	ND (100)
-	120.71				No Analytical Results				
-	120.60		ND (1)	ND (1)	ND (1)	NA	ND	42.0 (1)	ND (100)
-	117.68		ND (1)	ND (1)	ND (1)	ND (2)	ND	110.0 (1)	ND (100)
-	117.70				No Analytical Results				
-	117.74		ND (1)	ND (1)	ND (1)	ND (2)	ND	25.0 (1)	ND (100)
-	118.28				No Analytical Results				
-	118.33		ND (1)	ND (1)	ND (1)	NA	ND	95.0 (1)	120.0 (100)
-	128.36				No Analytical Results				
-	128.39		55.0 (1)	7.0 (1)	1.2 (1)	93.0 (2)	156.2	ND (1)	880.0 (100)
-	130.26				No Analytical Results				
-	131.28		30.0 (1)	ND (1)	ND (1)	NA	30.0	ND (1)	680.0 (100)
-	125.42				No Analytical Results				
-	125.40		ND (1)	ND (1)	ND (1)	ND (2)	ND	16.0 (1)	ND (100)
-	127.00				No Analytical Results				
-	126.97		ND (1)	ND (1)	ND (1)	NA	ND	21.0 (1)	ND (100)

Abbreviations:

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
	[illegible]				No Analytical Results				
---	124.20		360.0 (2)	89.0 (2)	2.9 (2)	85.0 (4)	536.9	ND (2)	1,300.0 (100)
	[illegible]				No Analytical Results				
---	125.58		230.0 (2)	51.0 (2)	1.3 (2)	NA	282.3	15.0 (2)	1,000.0 (100)
	[illegible]				No Analytical Results				
---	122.69		ND (1)	ND (1)	ND (1)	ND (2)	ND	9.7 (1)	ND (100)
	[illegible]				No Analytical Results				
---	124.07		ND (1)	ND (1)	ND (1)	NA	ND	3.5 (1)	ND (100)
	[illegible]				No Analytical Results				
---	113.47		29.0 (1)	ND (1)	ND (1)	3.3 (2)	32.3	290.0 (1)	250.0 (100)
	[illegible]				No Analytical Results				
---	116.32		14.0 (2)	ND (2)	ND (2)	NA	14.0	270.0 (2)	350.0 (100)
	[illegible]				No Analytical Results				
---	117.45		5.1 (1)	ND (1)	ND (1)	ND (2)	5.1	160.0 (1)	140.0 (100)
	[illegible]				No Analytical Results				
---	118.32		4.4 (1)	ND (1)	ND (1)	NA	4.4	130.0 (1)	240.0 (100)
	[illegible]				No Analytical Results				
---	107.80		49.0 (1)	ND (1)	ND (1)	ND (2)	49.0	84.0 (1)	280.0 (100)
	[illegible]				No Analytical Results				
---	108.61		28.0 (1)	ND (1)	ND (1)	NA	28.0	74.0 (1)	270.0 (100)

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THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208
5801 RIGGS ROAD, CHILLUM, MARYLAND

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PH ck. t)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
-	124.77				No Analytical Results				
-	124.23				No Analytical Results				
-	109.75		61.0 (2)	ND (2)	ND (2)	ND (4)	61.0	270.0 (2)	410.0 (100)
-	109.73				No Analytical Results				
-	109.75		17.0 (1)	ND (1)	ND (1)	ND (2)	17.0	160.0 (1)	140.0 (100)
-	110.09				No Analytical Results				
-	110.17		23.0 (1)	ND (1)	ND (1)	NA	23.0	160.0 (1)	330.0 (100)
-	115.97		ND (1)	ND (1)	ND (1)	ND (2)	ND	4.6 (1)	ND (100)
-	117.00				No Analytical Results				
-	116.81		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	116.66				No Analytical Results				
-	116.56		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
-	129.45		3.4 (1)	ND (1)	ND (1)	ND (2)	3.4	1.8 (1)	ND (100)
-	129.93				No Analytical Results				
-	129.78		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	129.95				No Analytical Results				
-	129.71		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
-	128.17				No Analytical Results				
-	128.18		10.0 (1)	9.0 (1)	ND (1)	16.0 (2)	35.0	26.0 (1)	120.0 (100)
-	130.46				No Analytical Results				

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PH ick. ft)	GW Elev (ft)	LPH Recov. (gal)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TPH-GRO (µg/L)
	[illegible]				No Analytical Results				
---	123.55		150.0 (2)	140.0 (2)	16.0 (2)	110.0 (4)	416.0	440.0 (2)	700.0 (500)
	[illegible]				No Analytical Results				
	[illegible]				No Analytical Results				
---	117.56		1,000.0 (10)	1,900.0 (10)	150.0 (10)	1,100.0 (20)	4,150.0	590.0 (10)	5,500.0 (500)
	[illegible]				No Analytical Results				
	[illegible]				No Analytical Results				
---	117.71		2,200.0 (20)	2,700.0 (20)	240.0 (20)	1,700.0 (40)	6,840.0	3,700.0 (20)	9,600.0 (1000)
	126.35				No Analytical Results				
	[illegible]				No Analytical Results				
---	126.02		480.0 (5)	900.0 (5)	63.0 (5)	810.0 (10)	2,253.0	650.0 (5)	2,800.0 (100)
	[illegible]				No Analytical Results				
	[illegible]				No Analytical Results				

renthesis.
ected for presence of LPH.
ry results were rounded.
ding.

Abbreviations:

DTL: Depth to LPH
DTW: Depth to Water
LPH: Liquid Phase Hydrocarbons
GW Elev: Groundwater Elevation
TOC: Top of Casing
ND: Not Detected above reporting limit
NA: Not Analyzed
UNK: Unknown

Printed On: 10/30/2008

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TABLE D-1. SOIL VAPOR MONITORING REPORT
THIRD QUARTER 2008 REPORT
FORMER CHEVRON FACILITY 122208
5801 RIGGS ROAD CHILLUM, MARYLAND

- 9/30/2008

Benzene µg/m³	Toluene µg/m³	Ethyl benzene µg/m³	m,p-Xylene µg/m³	o-Xylene µg/m³	MTBE µg/m³	Dichlorodifluoromethane µg/m³	Oxygen Percent	Carbon Dioxide Percent	Methane Percent
(5.1)	ND (6)	ND (6.9)	ND (6.9)	ND (6.9)	ND (5.8)	NS	8.0	9.0	0.0
(3.9)	ND (4.6)	ND (5.2)	ND (5.2)	ND (5.2)	ND (4.4)	ND (13)	5.4	16.8	0.0
(3.8)	ND (4.5)	ND (5.2)	ND (5.2)	ND (5.2)	ND (4.3)	ND (13)	9.4	7.5	0.0
(3.9)	ND (4.6)	ND (5.4)	ND (5.4)	ND (5.4)	ND (4.4)	ND (13)	5.7	15.3	0.0
(3.9)	ND (4.6)	ND (5.2)	ND (5.2)	ND (5.2)	53.0 (4.4)	1,400 E (13)	11.5	11.5	0.0
(3.9)	ND (4.6)	ND (5.2)	ND (5.2)	ND (5.2)	73.0 (4.4)	14.0 (13)	11.5	11.5	0.0
(7.7)	ND (9.1)	ND (10)	ND (10)	ND (10)	49 (8.7)	ND (26)	12.1	9.5	0.0
(5.2)	ND (6.2)	ND (7.1)	ND (7.1)	ND (7.1)	ND (5.9)	NS	16.5	3.9	0.0
(16)	ND (19)	ND (22)	ND (22)	ND (22)	ND (18)	>240,000 S (56)	19.4	0.9	4.4
(180,000)	ND (210,000)	ND (240,000)	ND (240,000)	ND (240,000)	ND (200,000)	300,000,000 E (590,000)	NS	NS	NS
(3.6)	ND (4.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.1)	940 (12)	10.4	4.2	0.0
(3.7)	27 (4.4)	41 (5.0)	69 (5.0)	65 (5.0)	5.2 (4.2)	540 (12)	13.5	6.8	0.0
(5.1)	ND (6)	ND (6.9)	7.6 (6.9)	ND (6.9)	ND (5.8)	NS	0.2	8.9	21.1
(3.9)	ND (4.6)	ND (5.2)	21.0 (5.2)	ND (5.2)	12.0 (4.4)	17,000 E (13)	15.8	4.3	1.2

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eporting limit.
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d in February 2008
re not sampled in March 2008 due to water in the well.

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