

Denise Y. Dixon Project Manager



Chevron Environmental Management Company Marketing Business Unit 2300 Windy Ridge Parkway Suite 575 South Atlanta, GA 30339 Tel 770-984-3165 Fax 770-984-3102 dyaa@chevron.com

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,

Kt W. fight FOK

Denise Dixon Project Manager

Attachments: CD with Semi-annual Groundwater Sampling Lab Reports

cc: Ms. V. North, DC DOE Mr. Herb Meade, MDE zV . 3



Denise Y. Dixon Project Manager

Chevron Environmental Management Company Marketing Business Unit

2300 Windy Ridge Parkway Suite 575 South Atlanta, GA 30339 Tel 770-984-3165 Fax 770-984-3102 dyaa@chevron.com

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,

Ponnel Bears for

Denise Dixon Project Manager

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

Gannett Fleming

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
 - o 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

🙆 Gannett Fleming

1

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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 (PM-1, PM-2, PM-3, MM-7, MM-17, PTM-A

🖲 Gannett Fleming

1

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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 μ g/L for total BTEX and 5 μ g/L for benzene. The discharge permit requires reporting of MTBE, tetrachloroethene, trichloroethene, trichloroethene, and 1,2-cis-dichloroethene, and 1,2-cis-dichloroethene concentrations without establishing limits.

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

🗴 Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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 μ g/L benzene and 100 μ g/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

🖄 Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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.

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	

Hydrocarbon Recovery Summary for Period and Cumulative Total for System

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.

🙆 Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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.

🖲 Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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.

Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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.

Gannett Fleming

t

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 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.

🗴 Gannett Fleming

Quarterly Progress Report Former Chevron Facility No. 122208, Chillum, Maryland July 2008 through September 2008

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.



r,

菌 Gannett Fleming

ı

Table 1Summary of Groundwater and Soil Vapor Monitoring ProgramThird Quarter 2008 ReportFormer Chevron Facility No. 122208, Chillum, Maryland

		Petroleum Hydrocarbon	Groundwater Gauging	
Well Identifier	Well Location Category	Sampling Frequency ²	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	
MANA/ 20D	Disselved Uvdresselver	Comi consul	O and annual	

🖄 Gannett Fleming

Table 1Summary of Groundwater and Soil Vapor Monitoring ProgramThird Quarter 2008 ReportFormer Chevron Facility No. 122208, Chillum, Maryland

			Groundwater Gauging	
Well Identifier	Well Location Category	Sampling Frequency ²	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	I
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.



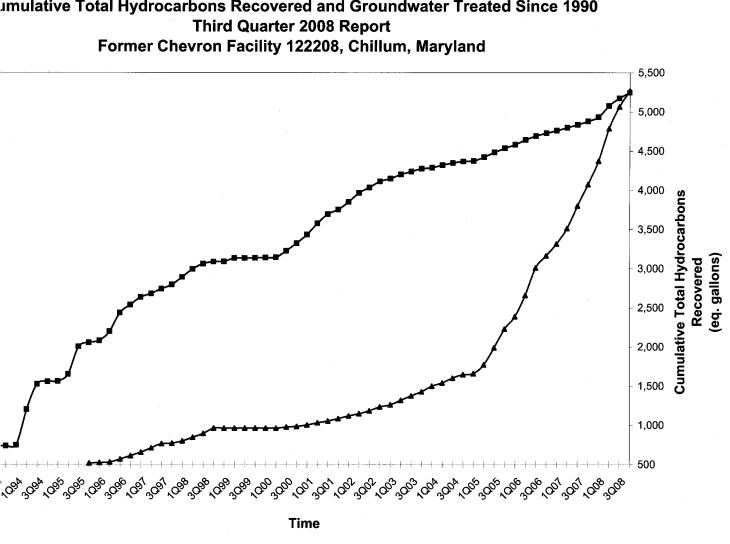
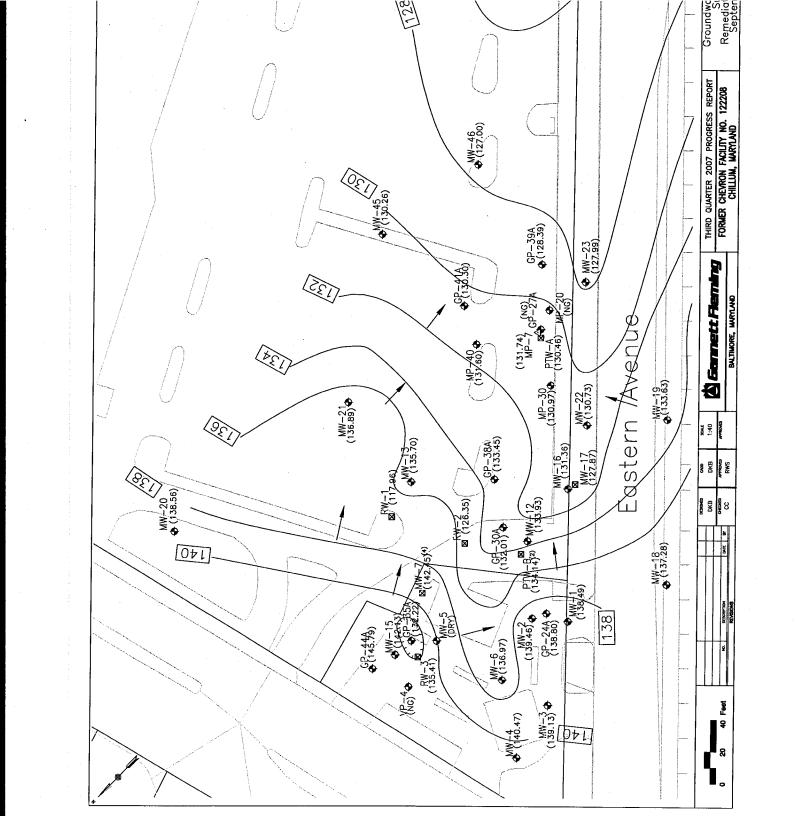
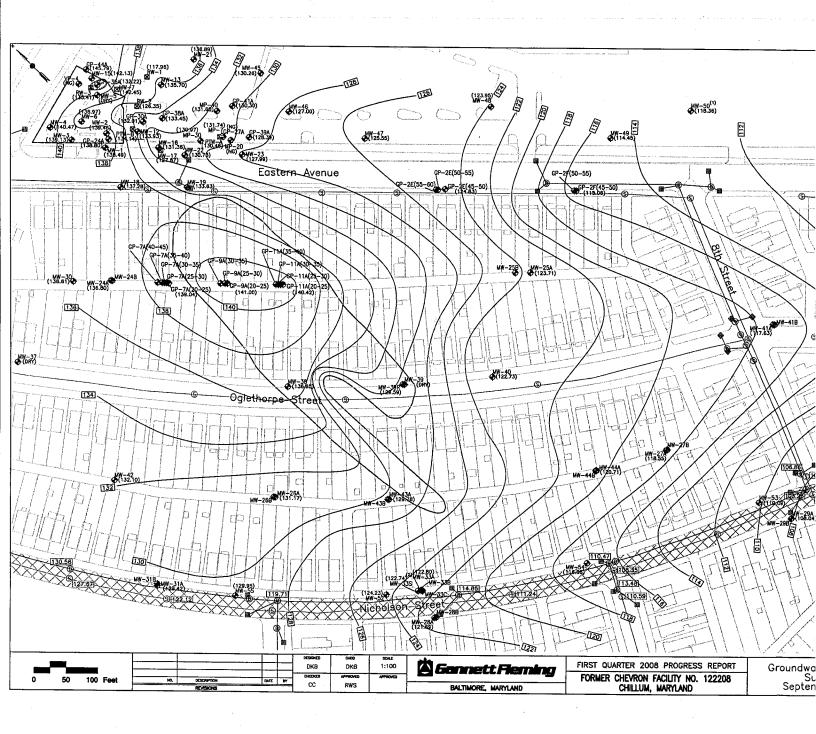


Figure 1 umulative Total Hydrocarbons Recovered and Groundwater Treated Since 1990

Total Hydrocarbons Removed ----- Groundwater Treated





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.

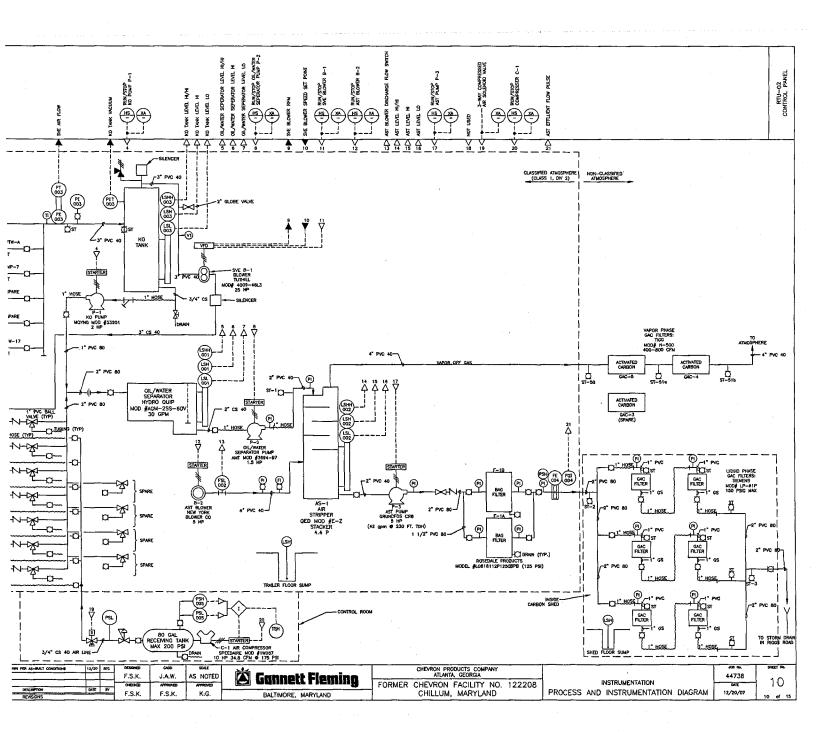


TABLE A-1: TOTAL FLUIDS EXTRACTION SYSTEM DATA THIRD QUARTER 2008 REPORT FORMER CHEVRON FACILITY 122208, 5801 RIGGS ROAD CHILLUM, MARYLAND PERIOD: OCTOBER 2007 - SEPTEMBER 2008



	NS		19,167,860	251,784	29,386,879	19.12		646.66	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
			10,101,000	201,101	20,000,010		Same and the second	853.90	A sharpen to a sharpen charter and a sharpen charter
3	٧S	- -	19,170,774	2,774	29,389,793	46.23	-	653.99	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
	in An Anna	in an				s			
1 6	٧S	-	19,481,563	0	29,700,582	0.00	-	653.99	Change Filters
	Silvers			Alter a	•				
	٧S	-	19,167,860	0	29,700,582	0.00		653.99	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
and the second second second			40 705 500		00.050.040	400.07		653.00	
s f	NS	-	19,725,526	554,752	30,258,248	130.07	-	653.99	from EOS
	NS	-	19.868.377	731	30,401,099	10.44	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
		and the second	15,000,077		00,401,000			1007.00	
1 3	٧S		20,004,665	0	30,537,387	0.00	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
	S C								E EN
1 3	٧S	-	20,201,100	195,100	30,733,822	19.18	-	657.80	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
			and the second secon				and and a second se		
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
			and the second se			an arres a referance	1 - a 1 - 23	Atta	ANTER STREET, SAME AND A DAMAGE AND A
) Sector contract of the sector of the secto	٧S	-	20,760,400	212,900	31,293,122	19.69	-	662.45	AST-HH Bag Filters
	12000		00.010.000	Contract of the South of the South	04 0 40 000	40.00	and the second second	CC0 45	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
) V	٧S	- 2000-00-0-0-0	20,810,300	49,900	31,343,022	16.36	-	662.45	
	NS		21,371,700	365,900	31,904,422	19.58	_	662.45	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
		1900 000	21,371,700	000,000	51,504,422	10.00	en an		
1.19 (19 (19 (19 (19 (19 (19 (19 (19 (19 (٧S	de sub-sub-side a sub-s	22,115,600	376,400	32,648,322	19.98	-	671.76	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
		ang					2/02/10-2		
1 6	٧S	-	22,433,031	205,531	32,965,753	20.09	-	671.76	AST-HH Bag Filters
			an a		Anna an tha anna an tha				
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
		na an a							
	0	-	22,845,800	149,700	33,378,522	20.62	-	677.49	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
. 7	0	100.0	22 128 200	177 070	22 670 022	20.56	4.10	681.60	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
)/	0	100.0	23,138,200	177,870	33,670,922	20.56	4.IU	001.00	
	0		23.468.100	210,700	34.000.822	20.19	-	681.60	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
			20,400,100	- 10,100					
3	٧S	-	23,847,978	79,378	34,380,700	19.01	-	681.60	from EOS
	0								
				Pa	age 1 of 2				Printed on: 10/30/2008

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 25,807,900 0 36,340,622 0.00 9.02 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,861,400 0 36,394,122 21,44 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 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 36,624,322 2102 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 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 0 100.0 26,43700 19,300 37,285,722 17.56 - 709.25 Remote shutdown- Check PLC 0									
0 - 24,325,000 0 34,857,722 0.00 - 687,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 24,751,884 20,429 35,284,605 20.00 - 687,27 AST-HH Bag Filters 0 - 24,751,884 26,459 35,284,605 20.00 - 687,27 AST-HH Bag Filters 0 - 25,017,023 26,5139 35,549,745 20.98 - 687,27 AST-HH Bag Filters 0 100.0 25,017,023 0 35,549,745 0.00 5.99 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 25,017,023 0 35,90,522 18,78 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,367,800 161,300 36,022,022 10,0 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,367,800 0 36,022,022 0.00 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800	0	100.0	24,109,100	165,800	34,641,822	19.64	5.67	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS - 24,751,884 26,459 35,264,606 20.05 - 687,27 AST-HI Bag Filters 0 - 26,017,023 265,139 35,549,745 20.08 - 687,27 AST-HI Bag Filters NS - 26,017,023 265,139 35,549,745 20.09 - 687,27 AST-HI Bag Filters NS - 26,017,023 01 35,549,745 20.09 - 687,27 GAC Change GAM 0 100.0 25,017,023 01 35,549,745 20.09 - 682,27 GAC Change GAM 0 - 25,017,023 0 35,549,745 20.00 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,361,800 161,300 36,026,022 244 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,495,300 0 36,124,522 0.00 - 693,27 RV1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,801,900 0 36,340,	0		24,325,008	245,900	34.887.722	20.77		687.27	RMI RW2 RW3 MW7 MM17 PTWA PTWB
NS 24,751,884 26,459 35,284,606 22.05 687.27 AST-HH Bag Filters 0 25,017,023 265,139 35,549,745 20.09 667.27 AST-HH Bag Filters 0 100.0 25,017,023 265,139 25,017,023 0 35,549,745 20.09 663.27 RWT RW2 RW3 MW7 RW17 PTWA PTWB 0 100.0 25,017,023 0 35,549,745 0.00 5.99 693.27 RWT RW2 RW3 MW7 RW17 PTWA PTWB 0 - 25,067,00 198,47 35,90,522 18.76 - 693.27 RWT RW2 RW3 MW7 RW17 PTWA PTWB 0 - 25,367,800 161,300 35,90,522 18.76 - 693.27 RWT RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,495,300 0 36,028,022 0.00 - 693.27 RWT RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,641,800 0 36,174,522 0.00 - 693.27 RWT RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 25,807,900 0 36,3	0	-	24,325,000	0	34,857,722	0.00	-	687.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0 2473394 35 294.606 500 8727 RW1 RW2 RW3 MW7 AW17 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 20.00 5.99 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 25.017.023 0 35.549.745 20.00 5.99 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25.06.00 188.477 35.549.745 20.00 5.99 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25.06.00 13.690.0522 18.78 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.641.800 0 36.028.022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.641.800 0 36.174.622 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.841.800 0 36.174.822 0.00 -	16		and the second	400,425	35 269 147	36.000		987.27	- frior ECHE 22 - 2
NS - 25,017,023 266,139 35,549,745 20.98 - 687.27 AST-HH Bag Filters 0 100.0 25,017,023 0 35,549,745 0.00 5.99 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 25,005,010 199,477 36,927,222 18.78 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,367,800 161,300 35,900,622 18.78 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,495,300 36,026,022 24.41 593.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,495,300 36,026,022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,174,522 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,174,522 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,394,122 <td< td=""><td>NS</td><td>-</td><td>24,751,884</td><td>26,459</td><td></td><td></td><td>-</td><td>687.27</td><td>AST-HH Bag Filters</td></td<>	NS	-	24,751,884	26,459			-	687.27	AST-HH Bag Filters
NS -	0 🚳		- 24,291,984		35,284,606	3 6 00	. 46.15.4		
0 100.0 25,017,023 0 35,549,745 0.00 5.99 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,367,800 161,300 35,900,522 183.8 - 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 0 - 25,67,800 0 36,028,022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,641,800 0 36,028,022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,174,522 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,340,622 0.00 - 693.27 AST HH Bg Filers 0 100.0 25,807,900 0 36,344,622 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,861,400 </td <td>NS</td> <td>-</td> <td>25,017,023</td> <td>265,139</td> <td>35,549,745</td> <td>20.98</td> <td>-</td> <td>687.27</td> <td>AST-HH Bag Filters</td>	NS	-	25,017,023	265,139	35,549,745	20.98	-	687.27	AST-HH Bag Filters
0 - 25.206.500 103.477 20.9222 10.8 - 603.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25.367.800 101.300 35.900,522 18.78 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.495.300 0 36.028.022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.641.800 0 36.174.522 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.641.800 0 36.174.522 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.607.900 36.340.622 0.00 9.02 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.807.900 36.340.622 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.807.900 36.340.622 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.801.400 36.340.422 21.12<				E O		0.00		667.27	GAC Change - O&M
0 - 25,367,800 161,300 35,900,522 18.78 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,99,800 12,99,800 12,99,800 36,028,022 27,41 99,227 AST +HH Bag Filters 0 - 25,641,800 0 36,028,022 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,641,800 0 36,174,522 0.00 - 693.27 AST HH Bag Filters 0 - 25,601,800 0 36,174,522 0.00 - 693.27 AST HH Bag Filters 0 100.0 25,607,900 0 36,340,622 21,33 - 693.27 AST HH Bag Filters 0 100.0 25,807,900 0 36,340,622 21,33 - 693.27 AST HH Bag Filters 0 100.0 25,807,900 0 36,340,622 21,33 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 26,807,900 36,340,622 <td>0</td> <td>100.0</td> <td>25,017,023</td> <td>0</td> <td>35,549,745</td> <td>0.00</td> <td>5.99</td> <td>693.27</td> <td>RW1 RW2 RW3 MW7 MW17 PTWA PTWB</td>	0	100.0	25,017,023	0	35,549,745	0.00	5.99	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS 25.404:300 12703 36.028.022 22.41 30522 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 36.500 36.174.522 0.00 - 693.27 AST-HI Bag Filters 0 - 25.641.800 36.174.522 0.00 - 693.27 AST-HI Bag Filters 0 - 25.641.800 36.344.622 21.93 - 693.27 AST-HI 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 0 36.394.122 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25.861.400 0 36.394.122 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26.092.114 84.514 36.624.832 22.60 - 702.2	5 OF		25,206,508	189.477	- 30 389.222			693.27	RINT RINZ RVIS MAY NW17 PTWA PTWB
0 - 25,495,300 0 36,028,022 0.00 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,174,522 0.00 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,641,800 0 36,174,522 0.00 - 693,27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,861,400 0 36,340,622 0.00 9.02 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,861,400 53,500 36,340,622 0.00 9.02 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25,861,400 0 36,340,622 0.00 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,861,400 0 36,340,422 21,02 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,092,114 84,514 36,624,836 22,60 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 <t< td=""><td>0</td><td>-</td><td>25,367,800</td><td>161,300</td><td>35,900,522</td><td>18.78</td><td>-</td><td>693.27</td><td>RW1 RW2 RW3 MW7 MW17 PTWA PTWB</td></t<>	0	-	25,367,800	161,300	35,900,522	18.78	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS - 26.641.800 36.500 26.17.422 21.32 - 693.27 ASX H1 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 0 36.340.622 21.13 - 693.27 ASX H1 Bag Filters 0 100.0 25.807.900 0 36.340.622 21.43 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.607.400 53.500 36.340.622 21.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 25.601.400 0 36.340.622 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26.092.114 84.514 36.624.836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26.092.114 84.514 36.624.836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26.02.114 <td>NS 👬</td> <td></td> <td>25,495,300</td> <td>127800</td> <td>36,028,022</td> <td>122.41</td> <td>A DEC</td> <td></td> <td>AST-HH Bag Filters</td>	NS 👬		25,495,300	127800	36,028,022	122.41	A DEC		AST-HH Bag Filters
0 - 25,641,800 0 36,174,522 0.00 - 693.27 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS 26,807,900 766,100 36,340,622 21,45 - 693.27 AST FH Bag Flors 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 0 36,340,622 21,44 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 25,861,400 0 36,394,122 21,44 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,007,600 146,200 36,643,322 21,02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,002,114 84,514 36,624,836 22,60 - 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 0 100.0 26,643,70	0	-	25,495,300	0	36,028,022	0.00	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS 25,807,900 66,100 35,34,22 21,12 - 593,27 AST Ht 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 0 36,394,122 21,44 - 702,28 AST Ht Bag Filters NS - 25,861,400 0 36,394,122 0.00 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,097,600 446,200 36,544,322 21.02 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,092,114 84,514 36,624,836 22.60 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 702,28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,489,000 396,886 37,021,722 10.65 6.96 709,25 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,643,700	The second second		25,641,800	446,500	- 36-11-41-02-0	21.82		693.27	AST HIL 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 63,500 36,394,122 21,44 - 702.28 AST-Initiag Filess NS - 25,861,400 0 36,394,122 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,097,600 446,200 36,394,122 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,092,114 84,514 36,624,636 22.60 - 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 0 100.0 26,753,000 109,300 37,285,722 17.56 - 709.25 Rw1 RW2 RW3 MW7 MW17 PTWA 0 100.0 26,909,900 156,900 37,485,722 17.56 - 709.25 RW1 RW2 RW3 MW7 MW17 PTWA 0 10	0	-	25,641,800	0	36,174,522	0.00	-	693.27	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS 26,661,402 53,500 36,394,122 21,44 - 702.28 AST-HH Bag Fillers 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 36,644,322 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 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 0 100.0 26,753,000 109,300 37,285,722 17.56 - 709.25 Rw1 RW2 RW3 MW7 MW17 PTWA 0 100.0 26,909,900 156,900 37,442,622 13.89 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 100.0 <	NS	and the second	25,807,900	\$66,100	365340.022	21.99		693.27	AST He Bag Filters
NS - 25,861,400 0 36,394,122 0.00 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,097,600 146,206 36,640,322 21.02 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 84,514 36,624,836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB NS - 26,092,114 0 36,624,836 22.60 - 702.28 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 26,43,700 396,886 37,021,722 10.65 6.96 709.25 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,753,000 109,300 37,285,722 17.56 - 709.25 Remote shutdown- Check PLC 0 - 26,909,900 156,900 37,426,622 13.80 2.26 711.51 RW1 RW2 RW3 MW7 MW17 PTWA NS <t< td=""><td>0</td><td>100.0</td><td>25,807,900</td><td>0</td><td>36,340,622</td><td>0.00</td><td>9.02</td><td>702.28</td><td>RW1 RW2 RW3 MW7 MW17 PTWA PTWB</td></t<>	0	100.0	25,807,900	0	36,340,622	0.00	9.02	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
0 26.097.600 146,200 36.640.322 21.02 - 702.26 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 22.60 - 702.28 Air Compressor Failure 0 100.0 26,489,000 396,886 37,021,722 10.65 6.96 709.25 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 26,643,700 54,700 34,622 18.16 - 709.25 RW1 RW2 RW3 MW7 MW17 PTWA PTWB 0 100.0 26,909,900 109,30 37,285,722 17.56 - 709.25 Remote shutdown- Check PLC 0 100.0 26,909,900 156,900 37,442,622 13.80 2.26 711.51 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 NS - <td< td=""><td>NS</td><td></td><td>25,861,400</td><td>63,500</td><td>200304122</td><td>21.46</td><td></td><td>702.28</td><td></td></td<>	NS		25,861,400	63,500	200304122	21.46		702.28	
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 Air Compressor Failure 0 100.0 26,092,114 0 36,624,836 0.00 - 702.28 Rwi Bw2 Rw3 MW7 MW17 PTWA PTWB 0 100.0 26,648,000 396,866 37,021,722 10.65 6.96 709.25 RWI RW2 RW3 MW7 MW17 PTWA PTWB 0 - 26,753,000 109,300 37,285,722 17.56 - 709.25 Remote shutdown- Check PLC 0 - 26,909,900 156,900 37,442,622 13.80 2.26 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 100.0 26,909,900 156,900 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - <th< td=""><td>NS</td><td>-</td><td>25,861,400</td><td>0</td><td>36,394,122</td><td>0.00</td><td>-</td><td>702.28</td><td>RW1 RW2 RW3 MW7 MW17 PTWA PTWB</td></th<>	NS	-	25,861,400	0	36,394,122	0.00	-	702.28	RW1 RW2 RW3 MW7 MW17 PTWA PTWB
NS 26.092.114 0 36.024.08 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 54,700 34,642,22 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 0 100.0 26,909,900 156,900 37,442,622 13.80 2.26 711.51 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 0 100.0 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 -	0	and the second	26,097,600	146,200	38,540,322	21.02	n total	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 28,643,700 54,700 37,425,722 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 - 26,909,900 156,900 37,442,622 13.80 2.26 711.51 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 0 100.0 26,909,900 156,900 37,747,522 14.24 - 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 - 27,316,400 79,700 37,849,122 12.90 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 00 -	NS	-	26,092,114	84,514	36,624,836	22.60	-	702.28	Air Compressor Failure
0 28.643.700 54.700 37.285.722 18.16 709.25 Rwi Rw2 Rw3 Mw7 Mw17 PTWA PTW5 NS - 26,753,000 109,300 37,285.722 17.56 - 709.25 Remote shutdown- Check PLC 0 100.0 26,909,900 156,900 37,285.722 13.80 2.26 711.51 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 - 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,214,800 181,600 37,64/24 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 - 27,316,400 79,70	NS.		9 26,092,114	编辑 0 喙	36,629,636	add	- *	702.28	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 - - - - - 709.25 Remote shutdown- Check PLC 0 100.0 26,909,900 156,900 37,425,722 13.80 2.26 711.51 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 - 27,214,800 181,600 37,747,522 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,214,800 181,600 37,747,522 14.24 - 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 - 27,316,400 79,700 37,849,122 12.90 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,316,400 79,700	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 -		- 12	26,643,700	454,700	S. S	18.16	- (18 1 4-1	709.25	RW1 RW2 RW3 MW7 MW17 PTWA PTW8
0 100.0 26,909,900 156,900 37,42,622 13.80 2.26 711.51 RW1 RW2 RW3 MW7 MW17 PTWA NS - 27,214,800 181,600 37,705 42 14.24 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA V - 27,214,800 181,600 37,705 42 14.24 - 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 - 27,316,400 79,700 37,849,122 12.90 - 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 - 27,316,400 79,700 37,849,122 12.90 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,316,400 79,700 38,044,044 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA	NS	-		109,300	37,285,722	17.56	· -		Remote shutdown- Check PLC
NS - 27,214,800 181,600 37,747,522 14.24 - 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 - 27,316,400 79,700 37,849,122 12.90 - 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 - 27,316,400 79,700 37,849,122 12.90 - 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	A A		226753,000		37/2/34/10/06		and a second	769.25.	RW1 RW2 RW3 MM/PMW17 PTWA
NS - 27,214,800 181,600 37,747,522 14.24 - 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 - 27,316,400 79,700 37,849,122 12.90 - 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 - 27,316,400 79,700 37,849,122 12.90 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 0 - 27,316,400 79,700 38,047,0000 64 743.92 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 - 236,200 21,900 37,759,220 22,12 24,12 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 100,0 - 2515,100 - 98,042,000 45,800 61 714,52 RW1, RW2, RW3, MW7, MW17, PTWA			0220033200			- 19 19	and the second		RW1 RW2 RM3 MM7 MW17 PTWA
0 - 27,316,400 79,700 37,849,122 12.90 - 711.51 RW1 RW2 RW3 MW7 MW17 PTWA 100.0 27,515,100 108,000 38,04,7029 13,90 261 714,92 RW1 RW2 RW3 MW7 MW17 PTWA	NS	-	, ,	,	37,747,522		-	711.51	RW1 RW2 RW3 MW7 MW17 PTWA
100.0	2. S. S. A.		27,236,700 -	21,900	-37,768,486	242	-		RWI RW2 RW3 MAR MW12 PTWA
	0	-	27,316,400			12.90	_		
0 - 27,644,039 128,939 38,176,761 12.26 - 714.02 RW1 RW2 RW3 MW7 MW17 PTWA	a an	100.0		100.000	Sector Sector	2 13 BO.	land a land		RMIRW2 RW3 MW2 MW17 PTWA
	0	-	27,644,039	128,939	38,176,761	12.26	-	714.02	RW1 RW2 RW3 MW7 MW17 PTWA

llons) = (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).

6 of gasoline.

Page 2 of 2

Printed on: 10/30/2008

🞽 Gannett Fleming



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

	Surger States and States		in Marine Line		
250	410	34	290	984	300
		Line All Services			
320	550	36	360	1,266	300
		Leader Charles			
260	450	37	310	1,057	310
		- X MATERIA			
230	520	54	480	1,284	280
		in the second second			
240	390	31	270	931	240
			TRANSFER ST		
160	240	17	145	562	260
	320 260 230 240	320 550 260 450 230 520 240 390	320 550 36 260 450 37 230 520 54 240 390 31	320 550 36 360 260 450 37 310 230 520 54 480 240 390 31 270	320 550 36 360 1,266 260 450 37 310 1,057 230 520 54 480 1,284 240 390 31 270 931

Notes:

(1) ND: Not Detected above reporting limit.

(2) <##: Parameter not detected above the reporting limit.

🞽 Gannett Fleming

л



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

Anata and Anata		Viteri	ir ti	Market and		
11/6/07 13:50	<1	<1	<1	<3	0	12
12/3/07 13/10 10 10 10					1月18日,林康公长	
1/15/08 11:15	< 1	< 1	< 1	< 3	0	18
2/14/08 19:25			计一次的实际实际分词	ter an	i and the	
2/20/08 11:15	< 1	< 1	< 1	< 3	0	16
2200002038383878						
3/6/08 10:50	< 1	< 1	< 1	< 3	0	15
3/17/08 18:00	< 1	< 1	< 1	< 3	0	13
3/28/09 9:00						
4/3/08 14:40	< 1	< 1	< 1	< 3	0	17
4/16/08 16:35	< 1	< 1	< 1	< 3	0	16
		Rite - 19	Person of State			
5/1/08 11:15	< 1	< 1	< 1	< 3	0	12
SPEICE (BIE			Anger & medicines			
5/22/08 13:30	< 1	< 1	< 1	< 3	0	< 1
		and the second			SPANZ -	
6/2/08 14:05	< 1	< 1	< 1	< 3	0	< 1
	$(1,1) \in \{1,2,2,3,3,4,5,4,5,4,5,4,5,4,5,4,5,4,5,4,5,4,5$					
6/17/08 18:05	< 1	< 1	< 1	< 3	0	2.2
GIZGOB MOS						
7/24/08 14:25	< 1	< 1	< 1	< 3	0	6.6
8/4/08 12/25						
8/11/08 14:00	<1	<1	<1	<3	0	8.5
			laser and			
8/25/08 11:40	<1	<1	<1	<3	0	6.8
9/8/08 14:25	<1	<1	<1	<3	0	7.1
					- 38 (24-4)	
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.						

<u>Notes</u>

(1) Assumptions: Hydrocarbon molecular weight is 92 grams/mole; vapor behaves

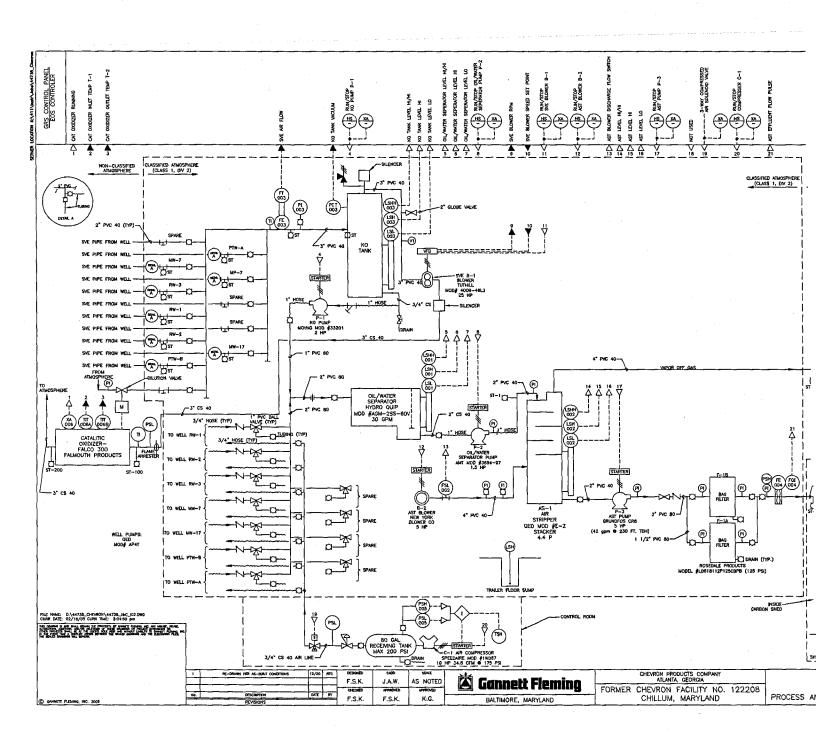


TABLE B-1: SOIL VAPOR EXTRACTION SYSTEM DATA THIRD QUARTER 2008 REPORT FORMER CHEVRON FACILITY122208, 5801 RIGGS RD CHILLUM, MD PERIOD: OCTOBER 2007 - SEPTEMBER 2008



		4 424° - 1-5	s de Mary	1. 1. j.			24. A R	Section 2		
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
10.0	te Ile			and the second				Sector Car	2.00.6	AUT HERE AND A REAL PROPERTY AND A REAL PROPER
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		Sin - Ani	in (Carl)	in the			e i e i de la composition de la composi	5 A		
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
OFF	CRORA			and the second		and and the	Carlon Core :			
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	10,050,0	No the sea		6						
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
(1)	THANKS:			10.19		ter i de		Sala presidente		
OFF	19,075.0	-	-	-	-	-	-	-	3,421.5	AST-HH
						ing Maria	18.6		5	
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
		the A Star								
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
				<u>.</u>	Contract Contract		sin These and Buddets			Fig. 6. A state of a stat state of a state of a sta
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
				10.4		And a Composition		3. alabeagean sourcess in capital	3.514.8	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	
ON	20,5096	14	destroyed and see all s		A REAL PROPERTY OF	40.0	7 4	14.5	3.533.7	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	20,774.3	14	170	128	87.0	48.8	7.4	14.0	3,555.7	
State of the second state of	04 540 5	Contraction Contract Street	400	126	80.0	57.0	7.9	32.3	3.580.1	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
ON	21,543.5	13	186	120	00.0	57.0	1.5	32.3	3,300.1	
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
	22,301.0	13	157	104	05.0	30.0	/.l	<u> </u>	3,029.3	DEVENUE RANS AND A DEVENUE AND A PTWO MPZ
OFF	23.427.2	1	Satis (201)	and the second second		-	nde Steven and State		3.661.4	VFD damaged in air compressor failure
	23,427.2	- #1617-1182810	-	1.198 (NO2)					0,001.4	
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	23,073.6		51	14	22.0				3,31 1.2	
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
		10	10	т. С. С. С	51.0					
ON	24.323.1	16		74	-		ang		3.675.6	RW1 RW2 RW3 MW7 MW17 PTWA PTWB MP7
				and the second					511 - 73	
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
	,0. 0.0			••					-,	

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).

ming

LE 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



y. washiri	Second States						89.98
)	8.90	1.40	10.00	520	129	0.0025	6.03
		1.0 States		and Rowers			11 07
0	16.00	1.90	14.00	1,200	135	0.0051	14.56
an pur la serie		Sec. Balance -		1,000	. 132	AT 1. 0.0040	11,87
)	18.00	2.10	17.00	970	127	0.0047	11.08
Sectors.						0.0028	11.00
)	5.00	1.00	7.00	1,200	134	Not Calculated	14.46
	- 600 -	the second second	NE # 10.00	- 630	<u>a 131</u>	0.0025	142
	7.00	1.00	8.00	340	74	0.0008	2.26
		P (189720) (189				CORD	· · · · 0.59
)	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.

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



	and the second		se ar se an		128 - Y	1000000 4	-6** - 4.60
)	2.00	0.10	1.10	220	129	0.0009	2.55
N.C.	3.90	<i>i</i> 0.35			4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20012	518
)	5.90	0.35	2.30	540	135	0.0024	6.55
	5 6 0/2-2 5			520	102	0.0018	6.17 Acres
)	3.60	0.25	2.00	360	127	0.0018	4.11
	and the second	5 		europe 620	- 182	0,0016	7.36
)	2.00	0.40	2.00	740	134	<0.02	8.91
	3.00	BOD A CONTRACT				0.0010	4.12
6	<0.08	<0.09	<0.09	30	74	<0.02	0.20
				AN 180	74	0,0003	1.20
)	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.

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



30/2	800								
PH	GW	LPH			Ethyl-	Total			TPH-
nick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
(ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
		a di kata dan s			an an		443		4200 (200)
	123.25	an ang grad ang				tical Results			
		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	4. 28.0 (2)				8.0 ···		280.0 (100)
	124.83					tical Results			
n an			<u>()</u> (2)		ND (COF		<u></u>	370.0 (2)	320,0 (100)
areas a second		e constant						an an tao amin' an	
	124.81				No Analy	tical Results			3 3 4 4954
	and an and the state of the								
and the second	and the second	€			STREET, ST.	tical Results	1 - A - A - A - A - A - A - A - A - A -	240.0 [1]	200.0 (100)
	123.24							160.0 (1)	150.0 (100)
tin the second se	124.70					tical Results			
	124.00	19 <u>8</u> 2	20 0- 5		END (0)			130.0 (4)	180.0 (100)
					·				
	6	6					N		280.0 (100)
	113.91					tical Results			
	And a state of the	a standard	NE NE DE L			NG-(2)	AUX -	29000 (2)	16000 (100)
 W1 77 2012	115.06					tical Results		270.0 (1)	390.0 (100)
	et de s								
	114-55		56 2				anter sais		510.0 (100)
	114.10					tical Results			
							in the second	420.0 (2)	2180 (100)
	115.31					tical Results		490.0 (40)	490.4-(200)
14	110.10				×4				an a
			Abbrevia		T00				
renthe				Depth to LPH		Top of Casing	conorting limit		
	•	ence of LPH		Depth to Water		ot Detected above i ot Analyzed	reporting limit		
-	uits wer	e rounded.		iquid Phase Hydrocarbons lev: Groundwater Elevatior		Jnknown			
ding.			GW EI	iev. Grounuwater Elevation					

Table 1: Page 1 of 21

Printed On: 10/30/2008

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



0/2008 ъ LPH GW Ethyl-Total TPH-Elev Recov. Toluene BTEX MTBE GRO ick. Benzene benzene **Xylenes** ft) (ft) (gal) (µg/L) (µg/L) (µg/L) $(\mu g/L)$ (µg/L) (µg/L) (µg/L) 138.04 ND (1) ND (1) NO (1) ND (2) ND ND (1) ND (100) 137.53 No Analytical Results 138.43 ND (1) ND (1) ND (2) ND 1.3 (1) ND (100) ND (1)139.04 No Analytical Results ND (1) 138,87 ND (1) ND (1) NA ND 1.0 (1) ND (100) 137.42 * VERNOR 36 F. I 1997 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 -No Analytical Results 138.77 No Analytical Results ND (1) 2.9 (2) 136.65 12.0 (1) ND (1) 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 ND (100) 1.7 (1) ND (1) ND (1) NA 1.7 1.8 (1) 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 50.0 (2) 135.86 280.0 (2) 6.0 (2) 150.0 (4) 486.0 180.0 (2) 2,700.0 (500) 136.40 No Analytical Results 136.32 6.7 (5) 380.0 (5) 66.0 (5) 452.7 310.0 (5) 2,000.0 (100) NA 134.88 No Analytical Results Sec. 1 4 (1997) 2019 (See 1) - 10 136.39 No Analytical Results ND (2) 139.51 ND (1) ND (1) **ND** (1) ND ND (100) ND (1) Abbreviations:

 Inthesis.
 DTL: Depth to LPH

 Interstep of LPH.
 DTW: Depth to Water

 / results were rounded.
 LPH: Liquid Phase Hydrocarbons

 ing.
 GW Elev: Groundwater Elevation

TOC: Top of Casing ND: Not Detected above reporting limit NA: Not Analyzed UNK: Unknown

Table 1: Page 2 of 21

Printed On: 10/30/2008



30/2	000								
<u>50/2</u> .PH	GW	LPH			Ethyl-	Total			TPH-
nick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
(ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	¥.	Alter services	1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						the second state of the se
	140.83		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
t an weig	Refer N					nical Receipte		- 1	
	140.89		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
- 7-4	126 17	ere a			्र स्ट्रिकेट स्टिब्स्ट (1881)				
	138.99	· · · · · · · · · · · · · · · · · · ·			No Anal	vtical Results			
	3.17.97.99.14 0 .00								
	136.89					vtical Results			
<u></u>	139.57				NO (1)	vtical Results	teristi etti	- ND (1)	ND (100)
			Section And And				1. KO	ND (1)	ND (100)
1976 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 - 1972 -	140.42					tical Results			in an in the second
.		14 Zeroj	(1)		ND (0)			ND (1)	ND (100)
. .	13/405		e se		and the second				
	137.12		· · · · · · · · · · · · · · · · · · ·		No Anal	vtical Results			
še (* 7					1. A.				e
	129.18				No Anal	ytical Results			
renthe	ncie		Abbrevia	<u>itions:</u> Depth to LPH	TOC	Top of Casing			
		ence of LPH.		Depth to Water		lot Detected above re	porting limit		
		rounded.		Liquid Phase Hydrocarbon		ot Analyzed	sporting mint		
ding.	suits were	roundeu.		liquid Phase Hydrocarbon		Unknown		*	
ung.			GW EI	iev. Groundwaler Elevalo		CHINIOWH			

Table 1: Page 3 of 21



0/2	800									
'n	GW	LPH			Ethy					TPH-
ick.	Elev	Recov.	Benzene	Toluene	benze			BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L	-) (hð	/L)	(µg/L)	(µg/L)	(µg/L)
	137.97					No Analytical Result	s	ж. ч.		
	138.13	فأحدمه والأربية والمتحد والمتكاف	ND (1)	ND (1)	10.0	and the second) (2)	50.0	ND (1)	1,700.0 (100)
	138.80	en de la composition de la composition La composition de la c				No Analytical Result	<u>۽ زي</u>	ng para sa		
22	129.55	0.02			an an	No Anelytical Result	8	, i i		
27	127.95	0.05	an a na 1969 ilaya ka sa		All desired states and the second states	No Analytical Result	and the second second	i		
ssibl	e						8 S			
02	128.83	0.01		en nine star ett i ett ingen en en en tel		No Analytical Results	S			
16	127.24			an in the second se		No Analytical Result				and a standard and
13	127.23					No Analytical Results	S			
ovei	red by car			e de la composition de	a an	. C	hie ern se	and a		
-	130.14					No Analytical Results				
1 by	car		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	and the second				82.4		
-	130.25					No Analytical Results	5			
By	Car		X Alexandre						Se 19.	
	130.98		5,200.0 (100)	16,000.0 (100)	2,500.0	(100) NA	<u>۸</u> ــــــــــــــــــــــــــــــــــــ	23,700.0	3,100.0 (100)	110,000.0 (10000)
•	128,40					No Analytical Result	S .			
-	128.27					No Analytical Results	5			
	128,44		S. S. Sandar	3. a.C.	te - serverente	No Analytical Result	3			
-	128.12					No Analytical Results				
-	127.96	wellought i const	Co. Self.			No Analytical Result				
-	128.86		9,100.0 (200)	11,000.0 (200)	920.0			26,820.0	49,000.0 (200)	72,000.0 (5000)
	129.84	Ni kaya an	an a			No Analytical Result				2014년 2014년 1월 1914년 1월 1914년 1월 1914년 1월 1914년 1월 1월 1914년 1월
-	129.92					No Analytical Results				
	and the first of the second	9 J			and and a set for all a start of an a second	No Analytical Result	and the second sec		han tan tan tan tan tan tan tan tan tan t	
•••	132.13					No Analytical Results				
÷	132.01	10-5 M . 7	en e		State Astron	No Analytical Result			ar an	

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

Table 1: Page 4 of 21



20/2000

30/2	800								
.PH	GW	LPH			Ethyl-	Total			TPH-
nick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
(ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	134,91		-4.0000 (250) B					47,000.0 (280)	130,000.0 (5000)
						·			
	128.02	e. Said di	and the second second		2 1 1 1				
	128.97			·	No Analy	tical Results			
- 8	128.93				No Analy	tical Results			internet and
	128.99					tical Results			
	10000	etter i Para		se se provinse de la composition de la	Ascher State	tical Results a	Strig E St	8	
	127.73		42.0 (1)	57.0 (1)	13.0 (1)	76.0 (2)	188.0	21.0 (1)	200.0 (100)
									a de la companya de l La companya de la comp
	128.70			(III)	No Analy	tical Results			
	12630			Company in 194			2011 A.		
	132.67					tical Results			
	132.22		1. (c. 1. c. 1.	a and a second secon			in Starry Mr. A. M.		
		$(1, 2, \dots, 2^{n})$				acal Cepter (S.S.			
	129.98					tical Results		-	
	129.99					ncal Results			
	130.45					rtical Results			
	129390	$\sum_{i=1}^{n} (i \in \mathcal{F}_{i})$			TICK		an an teacht	1	CLUMP CONTRACTOR OF A CONTRACTOR O
	131.70		150.0 (2)	280.0 (2)	10.0 (2)	260.0 (4)	700.0	ND (2)	4,800.0 (500)
	132.61	5. Mar. 1		e de la companya de l	Di No Anel	tical Results and	Section 1		14.4
	133.46					tical Results			
	134.30			ale and the second second				and the second second	
	134.38					tical Results			
			1997 - 1997 - 1998 1997 - 1998 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -					and the second	
	135.66		3.4 (2)	5.1 (2)	4.0 (2)	NA	12.5	ND (2)	6,000.0 (100)
								98	
			Abbrevia	ations:					
					TOO	Terr of Oresiden			

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

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

Table 1: Page 5 of 21



\$0/2008 ਸ GŴ LPH Ethyl-Total TPHick. BTEX MTBE GRO Elev Recov. Benzene Toluene benzene **Xylenes** ft) (µg/L) (ft) (gal) (µg/L) (µg/L) (µg/L) (µg/L) (µg/L) (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 all stands No Analytical Results 1 128.38 ND (100) ND (1) ND (1) ND (1) ND (2) ND 4.1 (1) 130.30 No Analytical Results 130.08 1.5 (1) ND (1) ND (1) NA 1.5 5.4 (1) ND (100) 145.48 Sec. 1 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) No Analytical Results 145,79 145.85 7,500.0 (500) ND (5) 37.0 (5) 290.0 (5) NA 327.0 ND (5) 131.60 see fam. No Analytical Results 131.07 No Analytical Results 130.58 No Analytical Results 07 130.62 0.01 No Analytical Results 60 127.90 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 at a

By Car

 Abbreviations:

 enthesis.
 DTL: Depth to LPH
 TOC: Top of Casing

 cted for presence of LPH.
 DTW: Depth to Water
 ND: Not Detected above reporting limit

 y results were rounded.
 LPH: Liquid Phase Hydrocarbons
 NA: Not Analyzed

 ing.
 GW Elev: Groundwater Elevation
 UNK: Unknown

Table 1: Page 6 of 21



30/2	008							<u>s</u>	
.PH	GW	LPH			Ethyl-	Total			TPH-
hick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
(ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
¥.			1998) 		No Apoly	tical Results	.	gi sang sa sak	
	130.97			122 at 1	NO Analy		 -		
5 4 905	129,21 131.60				No Analy	rtical Results			
	101.00			· · · · · · · · · · · · · · · · · · ·					
	467.67 138.49	1997 - 1997 -			No Analy	tical Results			
	139.46	an an Sain			No Analy	tical Results	**************************************		
	139.13	8288253	er er son som			tical Results			
	140.47				No Analy	tical Results			
Mer Dan - Ma									
Dry	2.02.5				-				
- 2	ma X 4								
renthe	sis.		<u>Abbrevia</u> DTL: [tions: Depth to LPH	TOC:	Top of Casing			
		ence of LPH. rounded.	. DTW: LPH: I	Depth to Water iquid Phase Hydroca	ND: No: No: No: No: No: No: No: No: No: No	ot Detected above r ot Analyzed	eporting limit		
iding.			GW E	lev: Groundwater Elev	vation UNK:	Unknown			

Table 1: Page 7 of 21



	008					T . (.)			TOU
H :k.	GW	LPH	D	Toluene	Ethyl-	Total	BTEX	MTBE	TPH- GRO
۲.	Elev (ft)	Recov. (gal)	Benzene (µg/L)	(µg/L)	benzene (µg/L)	Xylenes (µg/L)	(µg/L)	(µg/L)	(μg/L)
	(11)	(gai)	(µg/c)	(µg/L)	(µg/L)	(µ9/⊏)	(µg/L)	(µg/c)	(µg/⊏)
	135.25		3.2 (1)		NØ-(1)	ND (2)	- 32	ND (1)	ND (100)
	136.97		······································		No Analy	rtical Results			
	119.91			A State State State State		tical Results	in (State)		
	119.91					rtical Results			
	119.86						in the Color		
Α.,	119.86					tical Results			
st ig S	119.91	S	700.0 (40)	1 200 0 (40)		tical Results	2 204 0	420.0.(10)	4 600 0 (500)
227	119.86 119.91	SELESSON ST	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			and the second second second second		tical Results	entine in the state of the stat		<u>e na Miller na Cairtín Sail</u>
30	119,91						and the company of the		
	119.91					tical Results			
	142.45	ren fa sal				tical Results			
	127.53	4			No Analy	tical Results			
	133.93				No Analy	tical Results			
1.50									
	135.59		5			tical Results			et al.
	135.70				No Analy	tical Results			
-	141.76			Jan San All Second	Sie finch	tical Results			
	141.78		8.6 (1)	47.0 (1)	22.0 (1)	65.0 (2)	142.6	ND (1)	900.0 (100)
30	142.13					tical Results			
iti da	142.07	<u>an dari dari dari dari dari dari dari dari</u>	7.9 (1)	16.0 (1)	23.0 (1)	NA	46.9	ND (1)	710.0 (100)
_					(, , / , <u>-</u>			<u> </u>	
			Abbrevi	ations:					
the	sis.			Depth to LPH	TOC:	Top of Casing			
		nce of LPH.		Depth to Water		ot Detected above re	porting limit		
	•	rounded.		Liquid Phase Hydroca		ot Analyzed	- -		

UNK: Unknown

Table 1: Page 8 of 21

GW Elev: Groundwater Elevation

ling.



30/2008

30/2008								
PH GW	LPH			Ethyl-	Total			TPH-
ick. Elev	Recov.	Benzene		benzene	Xylenes	BTEX	MTBE	GRO
ft) (ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
						3,249.0	2.680.01(10).	6,700.0 (1000) .
130.61				No Analy	tical Results			
- 19061					tical Results and	an a	and a strength the second	
130.67					tical Results			
	rest a State (1997)				Grade Results		· Alexandre	
130.70					tical Results			
190.68				Noliath	fical Results		T THE SECTION	<u>. A</u> AS
)ry Angeler	1. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			No-Analy	tical Results		State Report	
132.02	<u>an an a</u>				tical Results			
		The second second			tical Results			
131.36					tical Results			
- (\$1.65	Service 4	4,709.0 (100)	13,00050 (100)	00,0 (100)	MA.	* 19,100.0	560,0 (100)	38,000.0 (2000)
N 1251 025 0017		6,600.0 (50)	13,000,0 (88)		8,000,0 (100). tical Results	28,900.0	7,92559 (50)	50,000.0-(8000)
126.27	Parata		3.100.0 (25)		2,200.0 (50)	7 10.0	1,600.0 (25)	30,000.0 (5000)
127.87					tical Results		A State of S	
127.07		· · · · · · · · · · · · · · · · · · ·		i to 7 thaiy				
					6,100.0 (20)	7 140.0	NE-MA	24.000.0 (Sensor
136.65	والفعال المسار الاندور والمستاذ فالتكلا والمشاهدة				rtical Results			
- 180 M			a second				and the second	in the second second
134.51					tical Results			
					ne li presides de jave		A BARANA AND AND AND AND AND AND AND AND AND	
134.68					tical Results			
	() 				real and the Second		ND (10)	25,000.0 (1000)
138.51					rtical Results			
	and see a			saturation of the second s				
138.20				No Analy	rtical Results			
		Abbrevia	ations:					
enthesis.		DTL:	Depth to LPH	TOC:	Top of Casing			
ected for pres	ence of LPH.		Depth to Water	ND: N	ot Detected above r	eporting limit		
ry results we	e rounded.	LPH:	Liquid Phase Hydrocarbons	NA: N	ot Analyzed			
ding.		GW E	lev: Groundwater Elevation	UNK:	Unknown			

Table 1: Page 9 of 21



0/2008 GW LPH 'n Ethyl-TPH-Total ck. Elev Recov. Benzene Toluene benzene **Xylenes** BTEX MTBE GRO (ft) (gal) $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ (µg/L) (µg/L) (µg/L) (µg/L) 137.70 No Analytical Results 300 Jac. 10 137.28 No Analytical Results 137.13 6.1 (20) 670.0 (20) 270.0 (20) NA 946.1 27,000.0 (10000) ND (20) 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 ND (1) 2.0 2.0 (1) ND (1) ND (2) ND (1) 140.0 (100) 138.66 No Analytical Results 138.70 No Analytical Results 136.11 No Analytical Results 8.6 (1) 136.41 ND (1) ND (1) 15.3 6.7 (2) 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 1. No Analytical Results 129.33 No Analytical Results 128.90 No Analytical Results 129.02 No Analytical Results 128,70 12,000.0 (100) 4,900.0 (100) 1,200.0 (100) 8,200.0 (200) 26,300.0 710.0 (100) 46,000.0 (2000) Abbreviations: nthesis. DTL: Depth to LPH TOC: Top of Casing ted for presence of LPH. DTW: Depth to Water ND: Not Detected above reporting limit results were rounded. LPH: Liquid Phase Hydrocarbons NA: Not Analyzed GW Elev: Groundwater Elevation UNK: Unknown ng.

Table 1: Page 10 of 21



30/2008

	800				· · · · · · · · · · · · · · · · · · ·				
эн	GW	LPH			Ethyl-	Total			TPH-
ick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
ar ei er Sterke	129.70					0-10 States and	e - Barrista	·	
-	130.02	THE STANDARCHER			No Analy	tical Results			
	130.31	- 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19				10 I	- Alter of the second		and the second
-	130.96					tical Results			
¥.	130.73				a television of the first			and the states	
	131.14		1,100.0 (5)	730.0 (5)	95.0 (5)	NA	1,925.0	1,100.0 (5)	4,400.0 (100)
		i an							ND MOO
- -	126.21				No Analy	tical Results		and a sub-state of the sub-state of the sub-state of the sub-	· ·
				1 S C C C C C C C C C C C C C C C C C C		····*/ ND (2)			ND (100)
-	127.99	CALCULATION OF A			No Analy	tical Results			
	127.78	a a a sa	684M	(1) (1)		. AN MA	6.6	16.0 (1)	ND (100)
						Sector (10, 740)		MD (20)	42:000.0 (5000)
97.99	136.23	ri di 1927 il			and the second	tical Results			
- 10.055	130.23	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -							
	135.16	tt. Caleren W				tical Results			
	125.70	9	2011 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Sector and		licat Re public		Kind.	
-	135.30					tical Results		AND A	
an a	135.68		37.0 (25	400.0 (25)			41387.0	ND (25)	75,000.0 (5000)
- -	137.61					tical Results			
	X407.53	waxes.and	er e			ical Results			alana ayan ang ar
-	137.51					tical Results			
	137,10	active of			1			Sec.	
-	136.80					tical Results			
-				2015-01000(e20)	Server 200	en el State Charles de	Woole /	1994 (March 1997)	26.000.0 (1000)
1900100									
制的资	136.85		2007-108-20740-5-5-5					and the second	
				-11	· · · · · · · · · · · · · · · · ·		-		

enthesis. 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

Table 1: Page 11 of 21



0/2	800								
'n	GW	LPH		· · · · · · · · · · · · · · · · · · ·	Ethyl-	Total			TPH-
ck.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	· (µg/L)	(µg/L)
1.6	135.94			an a	No Anal	vtical Results	al Fritzen		
	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 Anal	ytical Results	4- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19	4.	
	136.69		ND (20)	110.0 (20)	460.0 (20)	NA	570.0	ND (20)	22,000.0 (500)
	123.19	1. g		ND (1)	ND (4)	ND (2)	ND	5.8 (1)	ND (100)
-	122.58					ytical Results			
	122.68		ND (1)	NP.(1)	ND (1)	ND (2)	ND	36 .0 (1)	ND (100)
	123.67		ND (1)	ND (1)	ND (1)		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)
<u>-</u>	123.26	<u></u>				tical Results			
	122.76		180.0 (2)	ND (2)		27.0 (4)	207.0	310.0 (2)	520.0 (100)
-	123.11	***************************************			the second se	tical Results			
	124.01		240.0 (2)	ND (2)	ND (2)	NĂ	240.0	350.0 (2)	990.0 (100)
	130.05		ND //D	NG (1)	ND (1)	ND (2)	ND	··· 1.7 (1)	ND (100)
- -	131.75				A second s	tical Results			
-Jaspa	181.25	S. Let	ND (1)	ND (1)	-ND (1)			ND (1)	ND (100)
-	131.17				No Analy	tical Results			
त्व (२२) १९२२ - १९१	130.93	44. 2012 -	ND		(1) (1)	NA	ND	ND (1)	ND (100)
	127.80		T1010 (1)	ND (1)	ND (1)	5.2 (2)	145.2	- 230.0 (1)	380.0 (100)
-	128.88	ar an			and the second	tical Results			
334	129.11		94.0 (1)	ND (1)	-	5.2 (2)	99:2	170.0 (1)	270.0 (100)
	125.09	<u></u>		allandi in the State Sta		tical Results			
			Abbrevia						
nthe		.		Depth to LPH		Top of Casing			
		nce of LPH.		Depth to Water		ot Detected above re	porting limit		
	uits were	rounded.		Liquid Phase Hydrocarbon		ot Analyzed			
ng.			GW E	lev: Groundwater Elevatior	n UNK:	Unknown			

Table 1: Page 12 of 21



30/2008

30/20)08								
PH	GW	LPH			Ethyl-	Total			TPH-
ick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
210	162-26				ever see also	- 	ue maint and	200.4 (1)	A90.0 (100)
				· · · · · · · · · · · · · · · · · · ·					
				ND (- 18. 10 - 11	44.0 (1)	ND (100)
	117.73					rtical Results			
	147.65	a gan	NO ME	NO (1)			Contraction of the	52.0 (1)	ND (100)
	118.55					rtical Results			
	118.43		NDO			State Barris	**************************************	23.0 (1)	ND (108)
								310.8 (2)	M 460.0 (100)
	115.61				No Analy	rtical Results			
	115.55			NDIM		52(2)	30.2	240.0 (2)	280.0 (100)
Contraction of the second	116.04					tical Results			
	116.45		37.0-61	NDW		NA	97.0	240.0 (1)	380.0 (100)
- (78) ·· (20, - 1)									
e ze			ND (1)		ND MY	(A) (A)	ND ND	24.31	ND (100)
	121.60					tical Results			
	121.51		AD (1)		1915 (1)		ND.	1.9 (l)	NE (100)
	121.69				No Analy	tical Results			
4 (,)				ing neut as		ant Mar tz	:	A.S. 1;8 (1)	MD (100)
	1.0.0		337 600 70)				NO		ND (100)
	120.82					tical Results	1000 1000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		
- 1 - A	appropriate provident and approximate		NDATES					TERNO (1)	ND-(100)
	121.18					tical Results			
	121.09		<u>NO (1) 173</u>		A PARTICES				(10 0)
			Abbrevia					<u></u>	
enthe	sis.			Depth to LPH		Top of Casing			
		ence of LPH		Depth to Water		ot Detected above r	eporting limit		
ry resi	ults were	e rounded.		Liquid Phase Hydrocarbons		ot Analyzed			
				1 One we do not an Elevention		Linknown			

UNK: Unknown

ding.

Table 1: Page 13 of 21

GW Elev: Groundwater Elevation



	800	· .							
1	GW	LPH			Ethyl-	Total			TPH-
۲.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	107.66		ND (1)	ND (1)	ND (1)	ND (2)	ND	14.0 (1)	ND (100)
	108.00					tical Results	·		
	107.89		ND (1)	NQ-(1)	NÐ (1)	ND (2)	ND	8,5 (1)	ND (100)
	108.04					tical Results			
و بر این	107.97	n African (San Fri Anno 1939 (Fri Anno 1939 (Fri	. ND (1)	ND (1)	ND (1)	<u>,</u> NA	ND	9.4 (1)	ND (100)
	108.67		ND (1)	NÐ (1)			MD	76.0 (1)	ND (100)
<u> </u>	108.74	N. HARRIS	No (I)			tical Results			140 (100)
	108.76		ND (1)	ND (1)		ND (2)	ND	75.0 (1)	ND (100)
	108.92	<u>4</u>			New York And	tical Results		10.0 (1)	
	109.00		ND (1)	ND (1)	ND (1)		NÐ	74.0 (1)	ND (100)
	136.83		ND (1)	ND (1)	ND (1)	NĎ (2)	ŃD	ND (1)	ND (100)
-iu-	135.09	이번 영상 방법을 받았다.	APP (11			tical Results	110		ND (100)
_	135.10		ND (1)	ND (1)		ND (2)	ND	ND (1)	ND (100)
12.51	136.61	2011 - 2010 - 2010 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 2011 - 			and the second second second second second second second	ical Results			110 1100
		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	ND (1)	ND (1)		NA	ND	ND (1)	ND (100)
	129.62	ing and in			Matanah	ical Results			
and a sub-	129.42				the second s	ical Results			
N.	131.35		1.3 (1)	ND (1)	ND (1)	NB (21	1.3	1.2 (1)	NØ (100)
	130.33	<u>e i na secondition</u>				ical Results			
	130.28		ND (1)	ND (1)		ND (2)	ND	1,2 (1)	ND (100)
	127.67	and the second				ical Results			= ()
	130.56		ND (1)	ND (1)			ND	1.2 (1)	ND (100)

nthesis.	DTL: Depth to LPH	TOC: Top of Casing	
cted for presence of LPH.	DTW: Depth to Water	ND: Not Detected above reporting limit	
results were rounded.	LPH: Liquid Phase Hydrocarbons	NA: Not Analyzed	
ing.	GW Elev: Groundwater Elevation	UNK: Unknown	

Table 1: Page 14 of 21



30/20	208								
PH	GW	LPH			Ethyl-	Total		-	TPH-
nick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
(ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
en		a and a second			an the second				
	122.98					tical Results	<u> </u>	1. ALTR. 1	
	122.90				NO Analy				
		0				ical Recodia			
	122.48		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
	122.30		A States	14. S. S. S. Barriel	(metality)		star in the second		
	122.49		ND (1)	ND (1)	ND (1)	NA	ND	1.1 (1) -	ND (100)
						-			
10123-00225				 A second sec			2. 1 . 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	121/10	See Alexandre			NO (OPPOS	second a method of the second s		FILU QUE	- 1,600.0 (100)
 Sectoration	121.37	174.746 B				tical Results		MAA MY	or 1,000.0+(100)
.	121.29 122.53		- 520.0 (6)	ND CT		tical Results		MARN 16	
	122.55				ND Analy		3400	2300 (2)	1.000:0 (100)
Star Strategy	144.374								
			200 P			ical Results			
	121.00		13.0 (1)	ND (1)	ND (1)	ND (2)	13.0	37.0 (1)	ND (100)
	121.34	Alian in the		A Start Start		Mathematics .	ana ang tang tang tang tang tang tang ta		
	121.24		12.0 (1)	ND (1)	ND (1)	NA	12.0	35.0 (1)	ND (100)
SPECIES AND REAL AND		Training the Color and a second		n and a service statement was a constructed at					
Pla Jelo			ND (G	<u>al an </u>	TEL ME (T)	and the second	NO	MD (1)	ND (100)
akrissiesies	123.58					tical Results	ND		
t Find									
									NO (100)
A. 196. AN A						The second state of the se	an a		
				14444					
							27 C. M. S. M.	er og er regererer i	
200000000000000000000000000000000000000	11.60 4 2555424								
			Abbrevia						
renthe				Depth to LPH		op of Casing			
	•	ence of LPH		Depth to Water		ot Detected above re	eporting limit		
-	ults were	e rounded.		iquid Phase Hydroca		ot Analyzed			
ding.			GW E	ev: Groundwater Ele	vation UNK: l	Jnknown			

Table 1: Page 15 of 21



0/2000

0/20	800								
Ъ	GW	LPH			Ethyl-	Total			TPH-
ck.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	98 34	an a			No Analy	tical Results			
				en di dan Kanada da da karangan karangan karangan karangan karangan karangan karangan karangan karangan karang Karangan karangan kara				en den stilleten en villen en versione	
	97.85				No Anali	tical Results			
	98.61	<u></u>				tical Results			
		and the second							
ry ry								<u> An an an Anna an Anna an Anna an A</u> nna an Anna	
	135.55		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
<u>-</u>	136.23	an a	(i federal	1415 (11)		tical Results		NU (1)	
nin da serie da serie Serie da serie	136.38		ND (1)	ND (1)	ND (1)	ND (2)	ND	ND (1)	ND (100)
-	136.65			anu (1)		tical Results	TTU:	140 (1)	ND (100)
•	136.50		ND (1)	in ND (1)	ND (1)	NA	NØ	ND (1)	ND (100)
		a Parata da Caracteria da	NATION AND AND AND AND AND AND AND AND AND AN		a a su a				
ry ry									
			- 100						
-	128.60		ND (1)	ND (1)	ND (1)		ND	ND (1)	ND (100)
- 3014 134	128.93					tical Results			
	128.95 129.59		ND (1)	ND (1)	ND (1)	ND (2)	ŇD	ND (1)	ND (100)
-	129.59		ND (1)	ND (1)	ND (1)	tical Results	ND	ND (1)	ND (100)
			ND (1)	ND (1)			ND	8.6 (1)	ND (100)
-	121.66				No Analy	tical Results			
			Abbrevia			· · · · · · · · · · · ·			
nthes				Depth to LPH		op of Casing			
	•	ence of LPH.		Depth to Water		t Detected above re	eporting limit		
	ults were	e rounded.		iquid Phase Hydroca		t Analyzed			
ing.			GW EI	ev: Groundwater Ele	vation UNK: U	Inknown			

Table 1: Page 16 of 21



30/2008

30/20	00								
PH	GW	LPH			Ethyl-	Total			TPH-
ick.	Elev	Recov.	Benzene		penzene	Xylenes	BTEX	MTBE	GRO
ft)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	121.70						ene en		310 (100)
	122.73 122.60					tical Results	ND	a sector and the sect	ND (100)
NUME CONTRACT									
1. 1.			are Central State			STERARD WAR	· · · · · ·		NEX(100)
	116.81					tical Results			
the state of the state of the	Contraction of the state of the		CONTROL OF				ND	ND (1) 7	- ···· ND:(100)
	117.63					ical Results			LUN MARK
			ND ()				<u></u>		ND (100)
			NG FB						
	115.94					ical Results			
			NO.(4)		AC (1)		2.0. ND	120 (1)	ND (100)
	117.99	and and the first of the second state of the second state of the second state of the second state of the second			No Analy	tical Results			
•	45				1994 <u>8</u>		ND .	20.0 (1)	ND (100)
- -									NPD (100)
St. C. March	131.45				No Analy	tical Results			
			STATISTICS AND	And the second secon					ND (100)
	132.10			an a		tical Results			
	19200						-NØ	ND (A)	ND (100)
19-20-20 ⁻²⁰⁰		-							
	100.40	ar ar			No Apoly	tical Results			and a second
	130.46 130.46	ART		New Distance of the State of States	NU Analy		Sec.		DI NO INO
	129.78				No Analy	tical Results		and a supervised and a second second	
A	129.70	an a					· 'W	NO-00-	(100) SAN NG (100)
			Abbrevia						
enthes				Depth to LPH		op of Casing			
		nce of LPH.		Depth to Water		ot Detected above re	eporting limit		
-	ults were	rounded.		iquid Phase Hydrocarbons		ot Analyzed			
ding.			GW E	lev: Groundwater Elevation	UNK: L	Jnknown			

Table 1: Page 17 of 21



0/2008 LPH TPH-'n GW Ethyl-Total ck. Elev Recov. Benzene Toluene benzene **Xylenes** BTEX MTBE GRO (ft) (gal) $(\mu g/L)$ (µg/L) (µg/L) (µg/L) $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ t) ND (2) 124.71 ND (1) 2.3 17.0 (1) ND (100) 2.3 (1) ND (1) 124.79 ND (2) 40.0 (1) ND (100) 8.6 (1) ND (1) 8.6 ND (1) 125,36 No Analytical Results 4.3 (1) ND (1) 4.3 21.0 (1) ND (100) 124.38 ND (1) NA 120.00 ND (1) ~ NO (1) ND (f) ND (2) ND 42.0 (1) ND (100) 120.15 No Analytical Results 120.11 ND (1) (2) ND 2. 2.64 ND (1) ND (1) 100.0 (1) ND (100) 120.71 No Analytical Results 120.60 ND ND (1) 42.0 (1) ND (100) NO (1) ND (1) NA 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 (2) ND 25.0 (1) ND (100) ND (1) ND (1) 1994 - V 118.28 No Analytical Results 118.33 ND (1) ND (1) NA NO 95.0 (1) 120.0 (100) ND (1) 128.36 No Analytical Results 1.5 1. 128.39 55.0 (1) 7.0 (1) 1.2 (1) 93.0 (2) 156.2 ND (1) 880.0 (100) 130.26 4.4 No Analytical Results 131.28 30.0 (1) ND (1) ND (1) NA 30.0 ND (1) 680.0 (100) TE. No Analytical Results 125.42 1.24 16.0 (1) 125.40 ND (1) ND (1) ND (1) ND (2) ND ND (100) No Analytical Results 127.00 ND 126.97 ND (1) ND (1) ND (1) NA 21.0 (1) ND (100) Abbreviations: DTL: Depth to LPH TOC: Top of Casing nthesis. DTW: Depth to Water ND: Not Detected above reporting limit sted for presence of LPH. NA: Not Analyzed results were rounded. LPH: Liquid Phase Hydrocarbons GW Elev: Groundwater Elevation UNK: Unknown ng.

Table 1: Page 18 of 21



30/2	008								
PH	ĠW	LPH			Ethyl-	Total			TPH-
ick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
- 116	124:07	- 19 - 9				Results			
-	124.20		360.0 (2)	89.0 (2)	2.9 (2)	85.0 (4)	536.9	ND (2)	1,300.0 (100)
4		1. 19 19 19 19 19 19 19 19 19 19 19 19 19				ical Results			
	125.58	-	230.0 (2)	51.0 (2)	1.3 (2)	NA	282.3	15.0 (2)	1,000.0 (100)
	Second					icai Rasuis			
-	122.69		ND (1)	ND (1)	ND (1)	ND (2)	ND	9.7 (1)	ND (100)
	123.99				to recreate the second second state and the second s	tical Results		2.5.(1)	ND (100)
-	124.07		ND (1)	ND (1)	ND (1)	NA	ND	3.5 (1)	ND (100)
r						ica Redite		an second and	સંચ્યા મહત્વ
-	113.47		29.0 (1)	ND (1)	ND (1)	3.3 (2)	32.3	290.0 (1)	250.0 (100)
	114:45			······································	No Analy				
	116.32		14.0 (2)	ND (2)	ND (2)	NA	14.0	270.0 (2)	350.0 (100)
					No Anaty				
-	117.45		5.1 (1)	ND (1)	ND (1)	ND (2)	5.1	160.0 (1)	140.0 (100)
	118.38	in the second	and the second			ical Results		a antioestation	
-	118.32		4.4 (1)	ND (1)	ND (1)	NA	4.4	130.0 (1)	240.0 (100)
W 8									
-	107.80		49.0 (1)	ND (1)	ND (1)	ND (2)	49.0	84.0 (1)	280.0 (100)
1. 1. 1.	litter manne					ad Ariter Second Sec			
	108.61		28.0 (1)	ND (1)	ND (1)	NA	28.0	74.0 (1)	270.0 (100)
enthe	ele		Abbrevia	i <u>tions:</u> Depth to LPH	TOC	Top of Casing			
		ence of LPH		Depth to Water		TOC: Top of Casing ND: Not Detected above reporting limit			
		e rounded.		iquid Phase Hydroca		ot Analyzed			
Jing.				lev: Groundwater Ele		Jnknown			

Table 1: Page 19 of 21



0/2008								
й GW	LPH			Ethyl-	Total			TPH-
ck. Elev		Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t) (ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
- 124.77			÷	No Analy	ical Results	. Frank and		
- 124.23				No Analyt	ical Results			
- 109.75	41.44 1	61.0 (2)	ND (2)	ND (2)	ND (4)	61.0	270.0 (2)	410.0 (100)
- 109.73					ical Results	antikalikan senai kaini senai ini kasa ikud		
- 109.75 - 110.09		17.0 (1)	ND (1)	ND (1) No Analyt	ND (2) ical Results	17.0	160.0 (1)	140.0 (100)
- 110,17	- 1	23.0 (1)	ND (1)	ND (11)	NA		160.0 (1)	330.0 (100)
	1. S.	ND (1)	ND (1)		ND (2)	ND	4.6 (1)	ND (100)
- 117.00					ical Results			
- 116.81	<u> </u>	ND (1)	ND (1)	and a second	ND (2)	ND	ND (1)	ND (100)
- 116.66					ical Results			
- 116.56		ND (1)	ND (1)	ND (1)	NA	ND	ND (1)	ND (100)
- 129.45		3.4 (1)	ND (1)	NO (1)	and the second	3:4	1.8 (1)	ND (100)
- 129.93					ical Results			
	A Constant	ND (1)	* ND (1)	ND (1)		ND	ND (1)	ND (100)
- 129.95		Lim / A			ical Results			
- 129.71		ND (1)		ND (1)	W	ND	ND (1)	ND (100)
- 128/17		and the second se			ical Results		Here an tar	
- 128.18		10.0 (1)	9.0 (1)	ND (1)	16.0 (2)	35.0	26.0 (1)	120.0 (100)
- 130.46				No Analyt	ical Results			
nthesis.		Abbreviat	ions: epth to LPH	τορ.τ	op of Casing		······	
ted for prese	nce of LPH.		Depth to Water		t Detected above re	eporting limit		
		D. W. L		140.140		porting mint		

NA: Not Analyzed

UNK: Unknown

Table 1: Page 20 of 21

LPH: Liquid Phase Hydrocarbons

GW Elev: Groundwater Elevation

results were rounded.

ng.



30/20	າດອ								
PH	GW	LPH			Ethyl-	Total			TPH-
ick.	Elev	Recov.	Benzene	Toluene	benzene	Xylenes	BTEX	MTBE	GRO
t)	(ft)	(gal)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	5 7 4 5 5 5			and the second second	No Anal	Acad Stepuns			
-	123.55		150.0 (2)	140.0 (2)	16.0 (2)	110.0 (4)	416.0	440.0 (2)	700.0 (500)
• 40¢					No And	dical Didaula	alar di bas a di ba san.		ellar and
, NAC	en a ser				No Anel	Akal 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)
• (28)	i in the	an a			No Avial	Acar Results			
						Add Rosalia - 24	a an		
-	117.71	A State of Manuf	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					dical Results		a an	
29.144	128.92		en des des comme		No Ana	disal Results			n a ri și
-	126.02		480.0 (5)	900.0 (5)	63.0 (5)	810.0 (10)	2,253.0	650.0 (5)	2,800.0 (100)
	135 41				No.Anal	rical Results	e - 199 - 199 - 199		in di si
. ang garage			a Tanan s a ang kang sa sa				en an		
S7.089	10/.00	於1999年之十 年後 國							
			Abbrevi	ations:				<u> </u>	
enthe	sis.			Depth to LPH		Top of Casing			
	•	ence of LPH		: Depth to Water		ot Detected above re	eporting limit		
y res	ults were	e rounded.		Liquid Phase Hydroca		ot Analyzed			
			014/5	The second se	اللالال مستقسي	Linkaan			

UNK: Unknown

ding.

Table 1: Page 21 of 21

GW Elev: Groundwater Elevation

ing

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



- 9/30/2008

7511-114-MEMP1117		ulli babberre i nel besta	newsternet and				13710142892340140		
Septeme	Tousere			A STATISTICS		A	Hall With the	Serboa Diexida	Methane
the section of the se	un m					レンフロントロントロン・アビー ひさん いちん ねっちょう レントレング じょうしょう	ちけんちょうちょう ひょうちょうちょうちょう	Percent	Percent
and a second statement	annessente a senateras	a de la construir de la constru	WAR WITH THE WAR PROVIDENT						
(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
			A CALL AND A			an a	15) <u>(</u> 7		
(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 (200,00)		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
		Contraction of the second			NEX (C. C)	NS	0.2	8.9	21.1
(5.1)	ND (6)	ND (6.9)	7.6 (6.9)	ND (6.9)	ND (5.8)				21.1 1.2
(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

arenthesis.

nded.

eporting limit.

led.

d in February 2008

re not sampled in March 2008 due to water in the well.