



EA Engineering, Science, & Technology, Inc.
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May 4, 2011

Mr. George Beaumont
New Mexico Environment Department
Petroleum Storage Tank Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507

Dear Mr. Beaumont:

On behalf of Conway Oil Company, EA Engineering, Science, and Technology, Inc. is submitting the first Semi-Annual Groundwater Monitoring Report for the Holiday Chevron site located in Tucumcari, New Mexico. Groundwater monitoring was conducted on March 15, 2011 in accordance with the applicable requirements of the New Mexico Administrative Code, Title 20, Chapter 5, Section 12 titled "Corrective Action for UST Systems Containing Petroleum Products", and the Petroleum Storage Tank Bureau's "Guidelines for Corrective Action" (NMED 2000).

The total approved scope of work was completed during this sampling event. The total for the first Semi-Annual Monitoring Report including New Mexico Gross Receipts Tax of 7% is \$5,055.25.

Please let me know if you have any questions regarding the information provided in this report.

Sincerely,

A handwritten signature in blue ink that reads "Teri McMillan".

Teri McMillan
Project Manager

A handwritten signature in blue ink that reads "Jay Snyder".

Jay Snyder
Senior Hydrogeologist

Enclosure

Cc: Jim Conway, Conway Oil Company
File



SEMI-ANNUAL GROUNDWATER MONITORING REPORT

**HOLIDAY CHEVRON
PSTB FACILITY #1407**

**3623 EAST TUCUMCARI BLVD
TUCUMCARI, NEW MEXICO**

Prepared for:

Mr. Jim Conway
Conway Oil Company
1348 US Hwy 60-84
Clovis, NM 88101

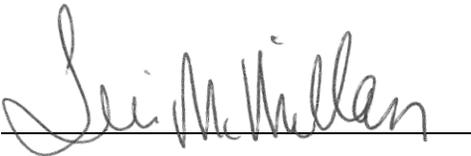
Prepared by:

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May 2011

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Name: Teri McMillan
Affiliation: EA Engineering, Science, and Technology, Inc.
Title: Senior Geologist
Date: May 4, 2011

I. INTRODUCTION

On behalf of Conway Oil Company, EA Engineering, Science, and Technology, Inc. (EA) has prepared this Semi-Annual Groundwater Monitoring Report for the Holiday Chevron located at 3623 East Tucumcari Boulevard, Tucumcari, New Mexico (Site). This report was completed in accordance with the *Work Plan for Semi-Annual Groundwater Monitoring*, dated July 27, 2010, prepared by EA to satisfy the requirements stated in the New Mexico Administrative Code (NMAC), Title 20, Chapter 5, Section 12 (20.5.12 NMAC) and the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) Guidelines for Corrective Action (GCA) (NMED 2000). The work plan was approved by the NMED PSTB on September 3, 2010. Work was completed under work plan identification number (WPID #) 15712-2.

The Site, located on the east end of Tucumcari, New Mexico, is no longer an active gasoline station. Three underground storage tanks (USTs) were located southeast of the store and east of the canopy and dispenser islands (Figure 1). The USTs (installed in 1984) only contained unleaded gasoline. The dispenser islands were located south of the store. The USTs were steel with cathodic protection and the product lines were composed of fiberglass. The facility was placed in temporary closure on December 5, 2005, when all automatic tank gauging reports for this facility indicated there were no leaks in the tanks. The cathodic protection system was maintained as required until lines, dispensers and tanks were removed on August 24, 2009. However, upon removal of the USTs, water was found in one of the tanks indicating a leak, and petroleum hydrocarbon-impacted soils were found in the UST tank hold, confirming that a release had occurred at the Site.

There are two known leaking petroleum storage tank sites in close proximity to the Holiday Chevron site. A former Whiting Brothers gas station was located adjacent to and immediately west of the Site; this site is now a vacant lot with existing groundwater monitoring wells. The Holiday Conoco is located across Tucumcari Boulevard, southeast of the Site. The Holiday Conoco is an operating gas station that is out of compliance with NMED PSTB Regulations.

On March 14 and 15, 2011, EA measured fluid levels and collected groundwater samples from monitoring wells MW-1 through MW-5 and Holiday Conoco monitoring well MW-8. All six wells were sampled as no measureable non-aqueous phase liquid (NAPL) was present in any of the wells. The groundwater samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), ethylene dichloride (EDC), ethylene dibromide (EDB), methyl tertiary butyl ether (MTBE), and total naphthalenes by Environmental Protection Agency (EPA) Method 8260B. In addition, pH, specific conductance, dissolved oxygen, and temperature were monitored in the field.

This report summarizes the results of the semi-annual monitoring event.

II. ACTIVITIES PERFORMED DURING THIS QUARTER

This section provides a brief description of monitoring activities performed during this monitoring period.

A. Brief Description of Remediation System and Date Installed

A summary of corrective action activities that have occurred at the Site include:

- On August 24, 2009, two USTs were removed from the Site. One contained water, indicating a leak. The removal action also revealed petroleum hydrocarbon-impacted soils in the UST tank hold, confirming a hydrocarbon release at the Site.
- Based on the Minimum Site Assessment investigation activities conducted in May 2010, it appears that the release has impacted groundwater hydrocarbon-impacted soil and aquifer matrix are present at depths from approximately 6 to at least 14 feet below the ground surface (ft bgs).
- In September 2010, NMED PSTB approved semi-annual groundwater monitoring.

B. Description of Activities Performed to Keep System Operating Properly

No active remediation activities have been completed at the site.

C. Monitoring Activities Performed

Groundwater Sampling Activities

Prior to collecting groundwater samples, fluid levels in all five Site monitoring wells, Holiday Conoco monitoring well, and two Whiting Brothers monitoring wells were gauged with an interface probe and/or an electronic water level meter. Table 1 provides a summary of the groundwater gauging data collected from the monitoring network. A potentiometric surface map, Figure 2, was constructed based on the collected data.

On March 15, 2011, groundwater from Site wells MW-1 through MW-5 and Holiday Conoco monitoring well MW-8 were sampled with disposable bailers. Wells were sampled from clean to dirty to the extent possible to minimize cross-contamination. All equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality. Wells were purged of three casing volumes to the extent possible without bailing dry prior to sampling. Purge water was ground discharged to an impervious surface in accordance with Section 1.7.2 of the GCA. Samples were collected by carefully pouring groundwater from the bailer into the sample containers.

Field parameters were measured with a YSI® water quality meter and YSI® dissolved oxygen meter during purging and prior to sampling. Conductivity, pH, dissolved oxygen, and temperature were monitored and recorded on monitoring well sampling field forms. The meter was calibrated and/or checked against a standard in accordance with manufacturer's specifications prior to use. Monitoring well sampling field forms are provided in Appendix A.

Sample containers, preservatives, analytical methods, and holding times are specified in Table 2. Samples for VOC analysis were collected such that no headspace existed in the sample vial. All samples were preserved in accordance with method requirements, then immediately cooled to less than 6 degrees Celsius (°C) with ice and delivered under chain-of-custody to Hall

Environmental Analysis Laboratory in Albuquerque, New Mexico. The analytical laboratory report is provided in Appendix B.

NAPL Thickness

There was no measurable NAPL present in any of the wells gauged this sampling event.

Groundwater Sampling Results

Dissolved phase benzene and MTBE concentrations were above the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards in all wells during this sampling event. Monitoring wells MW-3, MW-4, and MW-5 exhibited the highest benzene, ethyl benzene, xylene and toluene concentrations. Concentrations in these three wells were greater than 1,000 times the NMWQCC standard for benzene. Naphthalene concentrations were above standards in all wells, except MW-1, MW-2, and MW-8.

D. System Performance and Effectiveness

No system has been installed at the Site.

E. Statement Verifying Containment of Release

The extent of soil and groundwater contamination has not been delineated at the Site. The plume does not appear to be contained onsite.

III. SUMMARY AND CONCLUSIONS

This section summarizes the results, contains a brief discussion of Site trends, and provides recommendations for future Site activities.

A. Discussion of any Trends or Changes Noted in Analytical Results or Site Conditions

The results of groundwater gauging indicate that water levels have fallen when compared to the previous gauging event in September 2010. Water levels in MW-3 may be influenced by precipitation events, with infiltration thru the more permeable fill material used to backfill the former tank hold, causing a slight groundwater mounding in the vicinity of the tank hold as shown on the potentiometric surface map Figure 2. At the time of this monitoring event, the groundwater flow direction was to the west. Hydrographs for the monitoring wells are included in Appendix C.

The March 2011 distribution of dissolved phase organic contaminants is shown in Figure 3. Benzene and MTBE concentrations are present above NMWQCC standards in all groundwater monitoring wells (Table 3). Benzene concentrations have decreased in all wells sampled as compared to the September 2010 results. Hydrocarbon concentrations have decreased significantly in well MW-1 since April 2010. Benzene concentration trends for the monitoring wells are presented in Appendix D.

The parameters (dissolved oxygen, pH, specific conductance, and temperature) were measured during sampling. The field parameters are summarized on Table 4 and the dissolved oxygen measurements are posted on Figure 4. It appears that available oxygen is being depleted in wells MW-3 and MW-5, where hydrocarbon concentrations are greatest.

B. Ongoing Assessment of Remediation System

There is no active remediation system installed at the Site at this time.

C. Recommendations

Based on the results of groundwater monitoring, EA recommends the following:

- Complete soil and groundwater plume delineation by installing additional groundwater monitor wells.
- Continue semi-annual groundwater monitoring.

TABLES

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO**

Monitor Well	Date Measured	Northing ¹	Easting ¹	Casing Elevation ²	Depth to Product ³	Product Thickness ⁴	Depth to Water ³	Groundwater Elevation ²
Holiday Chevron								
MW-1	14-Mar-11	1518602.926	736405.740	4037.08	-	-	9.11	4027.97
	23-Sep-10				-	-	7.93	4029.15
	11-May-10				-	-	7.59	4029.49
MW-2	14-Mar-11	1518688.909	736281.164	4035.97	-	-	7.96	4029.12
	23-Sep-10				-	-	6.80	4029.17
	11-May-10				-	-	6.37	4029.60
MW-3	14-Mar-11	1518664.905	736356.987	4036.61	-	-	7.66	4028.31
	23-Sep-10				-	-	6.39	4030.22
	11-May-10				-	-	6.26	4030.35
MW-4	14-Mar-11	1518642.754	736291.257	4034.98	-	-	6.87	4028.11
	23-Sep-10				-	-	5.80	4029.18
	11-May-10				-	-	5.41	4029.57
MW-5	14-Mar-11	1518718.060	736341.413	4036.25	-	-	8.40	4026.58
	23-Sep-10				-	-	7.86	4028.39
	11-May-10				-	-	12.93	4023.32
Holiday Conoco								
MW-8	14-Mar-11	1518652.105	736416.409	4037.19	-	-	8.63	4028.56
	23-Sep-10				-	-	7.68	4029.51
	11-May-10				-	-	NM	NM
Whiting Brothers								
W-2	14-Mar-11	1518642.98	736178.81	4034.09	-	-	6.89	4027.20
W-8	14-Mar-11	1518626.28	736223.46	4031.15	-	-	3.61	4027.54

Notes:

¹ Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

² Vertical Control to NAVD88 Datum in feet above mean sea level

³ Measured in feet below the top of casing at survey point on north side of well

⁴ Measured in feet.

**TABLE 2. SAMPLE ANALYTICAL AND QUALITY CONTROL REQUIREMENTS
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO**

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative	Holding Time
VOCs	Water	EPA 8260B	3 x 40-mL glass vials	Mercuric Chloride; Cool to <6°C	14 days

Notes:

VOCs = volatile organic compounds

EPA = U.S. Environmental Protection Agency

°C = degrees Celsius

**TABLE 3. SUMMARY OF GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO**

Monitor Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	EDB	EDC	Total Naphthalenes
Holiday Chevron									
MW-1	15-Mar-11	51	< 1.0	< 1.0	< 1.5	710	< 1.0	< 1.0	< 2.0
	23-Sep-10	98	< 5.0	14	< 7.5	370	< 5.0	< 5.0	< 10
	28-Apr-10	550	1,200	240	750	510	< 10	< 10	39
MW-2	15-Mar-11	2,500	< 50	1,200	190	140	< 50	< 50	< 100
	23-Sep-10	3,500	< 10	1,200	31	170	< 10	< 10	150
	28-Apr-10	4,400	5,500	3,100	9,600	66	< 20	< 20	680
MW-3	15-Mar-11	36,000	36,000	3,100	15,000	5,400	< 50	< 50	370
	24-Sep-10	47,000	49,000	3,900	19,000	6,400	< 100	< 100	340
	28-Apr-10	37,000	43,000	2,800	18,000	5,000	< 50	< 50	350
MW-4	15-Mar-11	19,000	16,000	3,000	12,000	1,300	< 100	< 100	410
	24-Sep-10	21,000	24,000	2,800	13,000	1,100	< 50	< 50	350
	28-Apr-10	28,000	37,000	3,900	20,000	430	< 50	< 50	570
MW-5	15-Mar-11	34,000	48,000	2,900	20,000	2,500	< 50	< 50	500
	23-Sep-10	36,000	52,000	3,000	20,000	3,100	< 100	< 100	440
	11-May-10	25,000	34,000	1,200	14,000	2,600	< 10	< 10	393
Holiday Conoco									
MW-8	15-Mar-11	680	< 1.0	8.6	< 1.5	720	< 1.0	1.8	< 2.0
	23-Sep-10	4,100	< 10	73	< 15	900	< 10	< 10	< 20
NMWQCC and EIB Standards		10	750	750	620	100	0.1	10	30

Notes:

All concentrations are in micrograms per liter (ug/L) which is equivalent to parts per billion (ppb)

EDB = Ethylene dibromide

EDC = Ethylene dichloride

EIB = Environmental Improvement Board

MTBE = Methyl tertiary butyl ether

NMWQCC = New Mexico Water Quality Control Commission (20.6.2.3103 NMAC)

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
INORGANIC COMPOUNDS AND GEOCHEMICAL INDICATORS,
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (uS/cm)	Temp	DO (mg/L)
Holiday Chevron					
MW-1	15-Mar-11	8.3	3,721	15.2	1.41
MW-2	15-Mar-11	7.9	2,296	15.4	2.05
MW-3	15-Mar-11	8.1	2,164	14.8	0.50
MW-4	15-Mar-11	8.1	2,051	15.8	1.23
MW-5	15-Mar-11	7.9	3,218	15.1	0.90
Holiday Conoco					
MW-8	15-Mar-11	8.4	3,603	15.1	1.87

Notes:

DO = Dissolved oxygen

mg/L = Milligrams per liter

mV = Millivolts

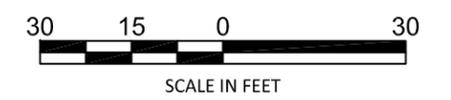
NA = Not analyzed

FIGURES



LEGEND:

-  MW-5 MONITORING WELL
-  MW-8 HOLIDAY CONOCO MONITORING WELLS
-  M-2 WHITNEY BROS. MONITORING WELLS
-  GAS UNDERGROUND GAS LINE
-  W UNDERGROUND WATER LINE
-  OH OVERHEAD ELECTRIC LINE
-  POWER POLE



- SOURCES:
1. GOOGLE EARTH PRO 2009. IMAGE DATE 02/26/06
 2. NMDOT AERIAL PHOTOGRAPH. IMAGE DATE 05/14/04
 3. BILLINGS AND ASSOCIATES, INC. 10/15/07

CONWAY OIL COMPANY
 HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO

**FIGURE 1
 SITE LAYOUT**

PROJECT #:	6231702.01	PROJECT PHASE:	MSA
PROJECT MANAGER:	TM		

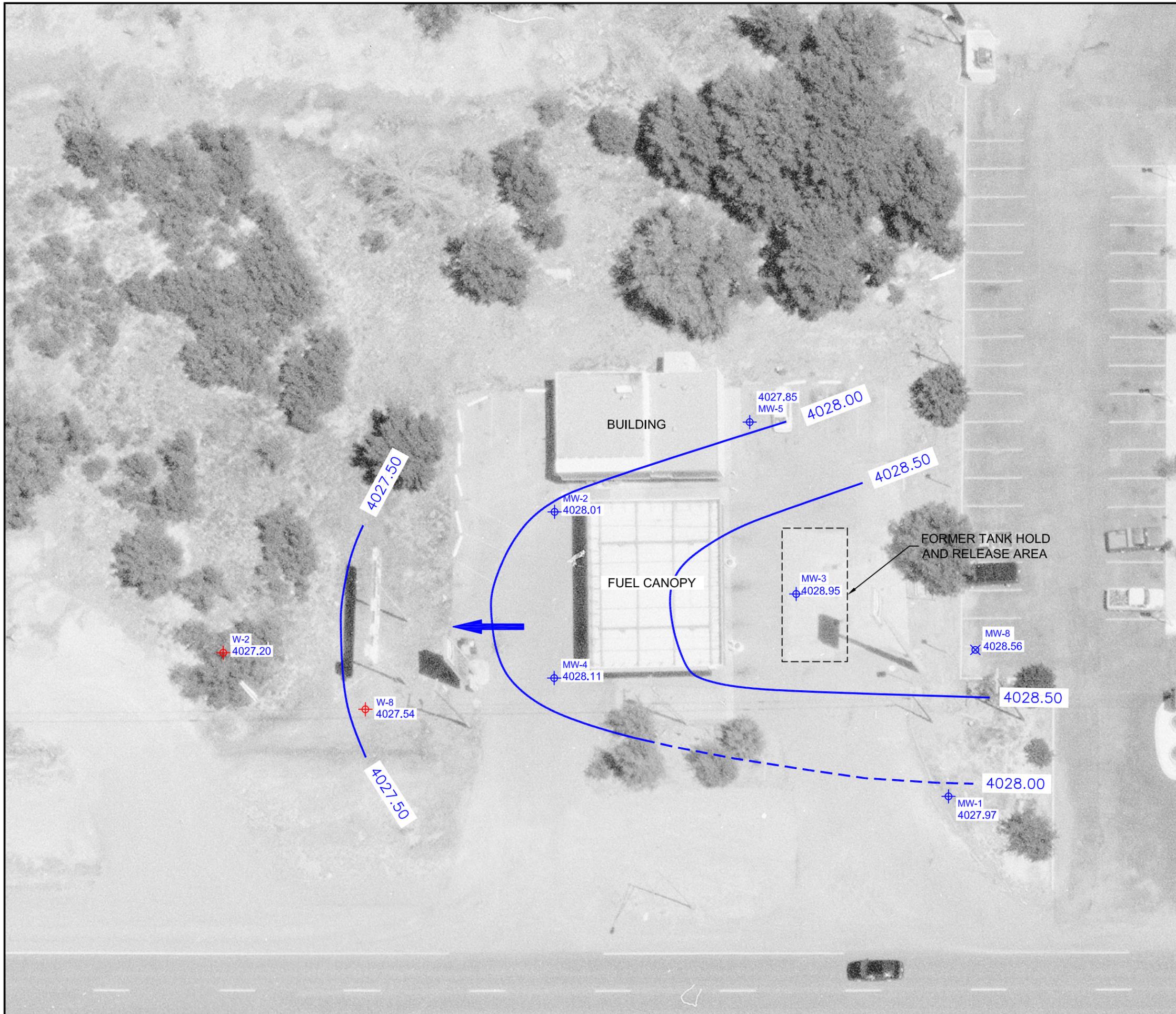


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LEGEND:

-  MW-5 MONITORING WELL
-  MW-8 HOLIDAY CONOCO MONITORING WELLS
-  M-2 WHITNEY BROS. MONITORING WELLS
-  * DATA NOT USED IN CONTOURING
-  NM ELEVATION NOT MEASURED
-  4030.00 GROUNDWATER SURFACE ELEVATION (DASHED WHERE INFERRED) FEET ABOVE MEAN SEA LEVEL
-  → GROUNDWATER FLOW DIRECTION



- SOURCES:
1. GOOGLE EARTH PRO 2009. IMAGE DATE 02/26/06
 2. NMDOT AERIAL PHOTOGRAPH. IMAGE DATE 05/14/04
 3. BILLINGS AND ASSOCIATES, INC. 10/15/07

CONWAY OIL COMPANY
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO

FIGURE 2
POTENTIOMETRIC SURFACE MAP
MARCH 2011

PROJECT #:	6231702.01	PROJECT PHASE:	MSA	PROJECT MANAGER:	TM
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LEGEND:

- MTBE METHYL TETRIARY BUTYL ETHER
- TOTAL NAPH. TOTAL NAPHTHALENES
- ⊕ MW-5 HOLIDAY CHEVRON MONITORING WELLS
- ⊗ MW-8 HOLIDAY CONOCO MONITORING WELLS
- ⊕ M-2 WHITNEY BROS. MONITORING WELLS
- NS NOT SAMPLED

NOTES:
 1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L)

BENZENE	34,000
TOLUENE	48,000
ETHYLBENZENE	2,900
XYLENES	20,000
MTBE	2,500
TOTAL NAPH.	500

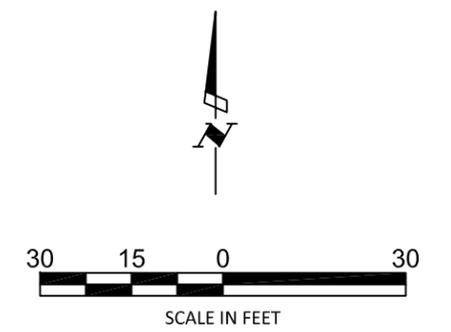
BENZENE	2,500
TOLUENE	<50
ETHYLBENZENE	1,200
XYLENES	190
MTBE	140
TOTAL NAPH.	<100

BENZENE	36,000
TOLUENE	36,000
ETHYLBENZENE	3,100
XYLENES	15,000
MTBE	5,400
TOTAL NAPH.	370

BENZENE	680
TOLUENE	<1.0
ETHYLBENZENE	8.6
XYLENES	<1.5
MTBE	720
TOTAL NAPH.	<2.0

BENZENE	19,000
TOLUENE	16,000
ETHYLBENZENE	3,000
XYLENES	12,000
MTBE	1,300
TOTAL NAPH.	410

BENZENE	51
TOLUENE	<1.0
ETHYLBENZENE	<1.0
XYLENES	<1.5
MTBE	710
TOTAL NAPH.	<2.0



- SOURCES:
- GOOGLE EARTH PRO 2009. IMAGE DATE 02/26/06
 - NMDOT AERIAL PHOTOGRAPH. IMAGE DATE 05/14/04
 - BILLINGS AND ASSOCIATES, INC. 10/15/07

CONWAY OIL COMPANY
 HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO

FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
MARCH 2011

PROJECT #:	6231702.01	PROJECT PHASE:	MSA	PROJECT MANAGER:	TM
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LEGEND:

- ⊕ MW-5 HOLIDAY CHEVRON MONITORING WELLS WITH DISSOLVED OXYGEN CONCENTRATION mg/L
- ⊗ MW-8 HOLIDAY CONOCO MONITORING WELLS
- ⊕ M-2 WHITNEY BROS. MONITORING WELLS
- NS NOT SAMPLED
- ESTIMATED EXTENT OF DISSOLVED OXYGEN AT 1 mg/L

NOTES:

1. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (mg/L)



SOURCES:

1. GOOGLE EARTH PRO 2009. IMAGE DATE 02/26/06
2. NMDOT AERIAL PHOTOGRAPH. IMAGE DATE 05/14/04
3. BILLINGS AND ASSOCIATES, INC. 10/15/07

CONWAY OIL COMPANY
HOLIDAY CHEVRON, TUCUMCARI, NEW MEXICO

**FIGURE 4
DISSOLVED OXYGEN CONCENTRATIONS
MARCH 2011**

PROJECT #: 6231702.01 PROJECT PHASE: MSA PROJECT MANAGER: TM



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**APPENDIX A
SAMPLING FIELD FORMS**



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW2 Date gauged 3/4/11
 Site WILBERTS NO Time gauged 1728
Holiday Chem
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 7.96 Feet Height of fluid column 5.23 Feet
 Total depth 13.19 Feet Volume in well 0.89 Gallons

(3 well volumes = 2.67 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0755	0.25	13.3	2259	8.81		2.05
0800	1.00	14.8	2232	8.10		
0803	1.75	15.5	2249	7.89		
0806	2.50	15.4	2296	7.92		

Actual purge volume 2.75 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 0810 2.75 Purged/sampled by [Signature]

Sample method New Briner & Twine

Requested analyses 8260

Comments/observations _____

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID mw03 Date gauged 3/14/2011
 Site Holiday Chevron Time gauged 1740
 Depth to PSH _____ Feet Well diameter 2 Inches
 Depth to water 7.66 Feet Height of fluid column 5.29 Feet
 Total depth 12.95 Feet Volume in well 0.89 Gallons

(3 well volumes = 2.75 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 3/15/11 0832 Purge Method handbailed

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0833	0.25	14.6	2223	8.26	✓	0.50
0836	1.25	14.8	2164	8.12	✓	

Actual purge volume 2 gal. Field measurements stabilized within ± 10%? NO

Time/date sampled 0840 03/15/11 Purged/sampled by JDM

Sample method new diameter bailer

Requested analyses 8260

Comments/observations well began to silt up after 1.5 gallons purged. had to sample well stopped generating 1075 - 20 gallons. recovered only 1/4" of water each deployment. doing HC octad.

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

could not get more than 1/4 bailer full 2nd time



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID mw4 Date gauged 3/14/11
 Site Holiday Chevron Time gauged 1731
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 6.87 Feet Height of fluid column 6.63 Feet
 Total depth 13.50 Feet Volume in well 1.12 Gallons

(3 well volumes = 3.50 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 0755 3/15/11 Purge Method

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0800	0.25	14.7	1743	8.30	—	1.23
0802	1.25	15.5	1754	8.00	—	—
0805	2.25	15.7	2061	7.96	—	—
0808	3.30	15.8	2477 2051 ^{3/15}	8.06	—	—

Actual purge volume 3.5 gal. Field measurements stabilized within ± 10%? NO

Time/date sampled 0815 3/15/11 Purged/sampled by ajm2

Sample method

Requested analyses

Comments/observations Very slight broken steel on etc.

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID mws Date gauged 3/14/2011
 Site Holiday Chev Time gauged 1720
 Depth to PSH _____ Feet Well diameter 2 Inches
 Depth to water 8.40 Feet Height of fluid column 4.52 Feet
 Total depth 13.92 Feet Volume in well 0.77 Gallons

(3 well volumes = 2.30 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 3/15/11 0830 Purge Method Hand bailed

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>0830</u>	<u>0.25</u>	<u>14.1</u>	<u>2513</u>	<u>8.22</u>		<u>0.90</u>
<u>0835</u>	<u>1.00</u>	<u>15.1</u>	<u>3218</u>	<u>7.92</u>		

Actual purge volume 1.75 gal. Field measurements stabilized within ± 10%? _____

Time/date sampled 3/15/11 0837 Purged/sampled by [Signature]

Sample method New turbine & bailer

Requested analyses B200

Comments/observations strong H₂S odor; sampled @ 1.75 due to lack of recharge in well

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

**APPENDIX B
ANALYTICAL LABORATORY RESULTS**

COVER LETTER

Tuesday, March 29, 2011

Teri McMillan
EA Engineering
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102

TEL: (505) 224-9013
FAX

RE: Holiday Chevron

Order No.: 1103642

Dear Teri McMillan:

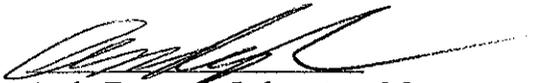
Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 3/16/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-01

Client Sample ID: MW8
Collection Date: 3/15/2011 7:40:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	680	20		µg/L	20	3/26/2011 5:42:45 PM
Toluene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Ethylbenzene	8.6	1.0		µg/L	1	3/24/2011 9:52:11 PM
Methyl tert-butyl ether (MTBE)	720	20		µg/L	20	3/26/2011 5:42:45 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2-Dichloroethane (EDC)	1.8	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2-Dibromosthane (EDB)	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Naphthalene	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2011 9:52:11 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2011 9:52:11 PM
Acetone	ND	10		µg/L	1	3/24/2011 9:52:11 PM
Bromobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Bromoform	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Bromomethane	ND	3.0		µg/L	1	3/24/2011 9:52:11 PM
2-Butanone	ND	10		µg/L	1	3/24/2011 9:52:11 PM
Carbon disulfide	ND	10		µg/L	1	3/24/2011 9:52:11 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Chlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Chloroethane	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
Chloroform	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Chloromethane	ND	3.0		µg/L	1	3/24/2011 9:52:11 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Dibromomethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
 Lab Order: 1103642
 Project: Holiday Chevron
 Lab ID: 1103642-01

Client Sample ID: MW8
 Collection Date: 3/15/2011 7:40:00 AM
 Date Received: 3/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	3/24/2011 9:52:11 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/24/2011 9:52:11 PM
Methylene Chloride	ND	3.0		µg/L	1	3/24/2011 9:52:11 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Styrene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/24/2011 9:52:11 PM
Vinyl chloride	ND	1.0		µg/L	1	3/24/2011 9:52:11 PM
Xylenes, Total	ND	1.5		µg/L	1	3/24/2011 9:52:11 PM
Surr: 1,2-Dichloroethane-d4	98.5	65.8-138		%REC	1	3/24/2011 9:52:11 PM
Surr: 4-Bromofluorobenzene	95.8	72.7-128		%REC	1	3/24/2011 9:52:11 PM
Surr: Dibromofluoromethane	146	69-135	S	%REC	1	3/24/2011 9:52:11 PM
Surr: Toluene-d8	100	86.1-134		%REC	1	3/24/2011 9:52:11 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
 Lab Order: 1103642
 Project: Holiday Chevron
 Lab ID: 1103642-02

Client Sample ID: MW1
 Collection Date: 3/15/2011 7:45:00 AM
 Date Received: 3/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	51	1.0		µg/L	1	3/24/2011 10:20:15 PM
Toluene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Ethylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Methyl tert-butyl ether (MTBE)	710	10		µg/L	10	3/26/2011 6:11:02 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Naphthalene	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2011 10:20:15 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/24/2011 10:20:15 PM
Acetone	ND	10		µg/L	1	3/24/2011 10:20:15 PM
Bromobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Bromoform	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Bromomethane	ND	3.0		µg/L	1	3/24/2011 10:20:15 PM
2-Butanone	ND	10		µg/L	1	3/24/2011 10:20:15 PM
Carbon disulfide	ND	10		µg/L	1	3/24/2011 10:20:15 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Chlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Chloroethane	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
Chloroform	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Chloromethane	ND	3.0		µg/L	1	3/24/2011 10:20:15 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Dibromomethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-02

Client Sample ID: MW1
Collection Date: 3/15/2011 7:45:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	3/24/2011 10:20:15 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/24/2011 10:20:15 PM
Methylene Chloride	ND	3.0		µg/L	1	3/24/2011 10:20:15 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Styrene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/24/2011 10:20:15 PM
Vinyl chloride	ND	1.0		µg/L	1	3/24/2011 10:20:15 PM
Xylenes, Total	ND	1.5		µg/L	1	3/24/2011 10:20:15 PM
Surr: 1,2-Dichloroethane-d4	97.2	65.8-138		%REC	1	3/24/2011 10:20:15 PM
Surr: 4-Bromofluorobenzene	96.5	72.7-128		%REC	1	3/24/2011 10:20:15 PM
Surr: Dibromofluoromethane	142	69-135	S	%REC	1	3/24/2011 10:20:15 PM
Surr: Toluene-d8	96.2	86.1-134		%REC	1	3/24/2011 10:20:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
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 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
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 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-03

Client Sample ID: MW2
Collection Date: 3/15/2011 8:10:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	2500	50		µg/L	50	3/26/2011 6:39:16 PM
Toluene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Ethylbenzene	1200	50		µg/L	50	3/26/2011 6:39:16 PM
Methyl tert-butyl ether (MTBE)	140	50		µg/L	50	3/26/2011 6:39:16 PM
1,2,4-Trimethylbenzene	240	50		µg/L	50	3/26/2011 6:39:16 PM
1,3,5-Trimethylbenzene	56	50		µg/L	50	3/26/2011 6:39:16 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Naphthalene	ND	100		µg/L	50	3/26/2011 6:39:16 PM
1-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 6:39:16 PM
2-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 6:39:16 PM
Acetone	ND	500		µg/L	50	3/26/2011 6:39:16 PM
Bromobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Bromodichloromethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Bromoform	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Bromomethane	ND	150		µg/L	50	3/26/2011 6:39:16 PM
2-Butanone	ND	500		µg/L	50	3/26/2011 6:39:16 PM
Carbon disulfide	ND	500		µg/L	50	3/26/2011 6:39:16 PM
Carbon Tetrachloride	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Chlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Chloroethane	ND	100		µg/L	50	3/26/2011 6:39:16 PM
Chloroform	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Chloromethane	ND	150		µg/L	50	3/26/2011 6:39:16 PM
2-Chlorotoluene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
4-Chlorotoluene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
cis-1,2-DCE	ND	50		µg/L	50	3/26/2011 6:39:16 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	3/26/2011 6:39:16 PM
Dibromochloromethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Dibromomethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Dichlorodifluoromethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1-Dichloroethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1-Dichloroethene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2-Dichloropropane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,3-Dichloropropane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
2,2-Dichloropropane	ND	100		µg/L	50	3/26/2011 6:39:16 PM
1,1-Dichloropropene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Hexachlorobutadiene	ND	50		µg/L	50	3/26/2011 6:39:16 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
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 ND Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-03

Client Sample ID: MW2
Collection Date: 3/15/2011 8:10:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	500		µg/L	50	3/26/2011 6:39:16 PM
Isopropylbenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
4-Isopropyltoluene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	3/26/2011 6:39:16 PM
Methylene Chloride	ND	150		µg/L	50	3/26/2011 6:39:16 PM
n-Butylbenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
n-Propylbenzene	88	50		µg/L	50	3/26/2011 6:39:16 PM
sec-Butylbenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Styrene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
tert-Butylbenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	3/26/2011 6:39:16 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	3/26/2011 6:39:16 PM
trans-1,2-DCE	ND	50		µg/L	50	3/26/2011 6:39:16 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Trichloroethene (TCE)	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Trichlorofluoromethane	ND	50		µg/L	50	3/26/2011 6:39:16 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	3/26/2011 6:39:16 PM
Vinyl chloride	ND	50		µg/L	50	3/26/2011 6:39:16 PM
Xylenes, Total	190	75		µg/L	50	3/26/2011 6:39:16 PM
Surr: 1,2-Dichloroethane-d4	104	65.8-138		%REC	50	3/26/2011 6:39:16 PM
Surr: 4-Bromofluorobenzene	104	72.7-128		%REC	50	3/26/2011 6:39:16 PM
Surr: Dibromofluoromethane	115	69-135		%REC	50	3/26/2011 6:39:16 PM
Surr: Toluene-d8	105	86.1-134		%REC	50	3/26/2011 6:39:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-04

Client Sample ID: MW4
Collection Date: 3/15/2011 8:15:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	19000	500		µg/L	500	3/28/2011 4:53:42 PM
Toluene	16000	500		µg/L	500	3/28/2011 4:53:42 PM
Ethylbenzene	3000	100		µg/L	100	3/26/2011 7:07:29 PM
Methyl tert-butyl ether (MTBE)	1300	100		µg/L	100	3/26/2011 7:07:29 PM
1,2,4-Trimethylbenzene	2600	100		µg/L	100	3/26/2011 7:07:29 PM
1,3,5-Trimethylbenzene	710	100		µg/L	100	3/26/2011 7:07:29 PM
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Naphthalene	410	200		µg/L	100	3/26/2011 7:07:29 PM
1-Methylnaphthalene	ND	400		µg/L	100	3/26/2011 7:07:29 PM
2-Methylnaphthalene	ND	400		µg/L	100	3/26/2011 7:07:29 PM
Acetone	ND	1000		µg/L	100	3/26/2011 7:07:29 PM
Bromobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Bromodichloromethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Bromoform	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Bromomethane	ND	300		µg/L	100	3/26/2011 7:07:29 PM
2-Butanone	ND	1000		µg/L	100	3/26/2011 7:07:29 PM
Carbon disulfide	ND	1000		µg/L	100	3/26/2011 7:07:29 PM
Carbon Tetrachloride	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Chlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Chloroethane	ND	200		µg/L	100	3/26/2011 7:07:29 PM
Chloroform	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Chloromethane	ND	300		µg/L	100	3/26/2011 7:07:29 PM
2-Chlorotoluene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
4-Chlorotoluene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
cis-1,2-DCE	ND	100		µg/L	100	3/26/2011 7:07:29 PM
cis-1,3-Dichloropropene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	3/26/2011 7:07:29 PM
Dibromochloromethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Dibromomethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2-Dichlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,3-Dichlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,4-Dichlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Dichlorodifluoromethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1-Dichloroethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1-Dichloroethene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2-Dichloropropane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,3-Dichloropropane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
2,2-Dichloropropane	ND	200		µg/L	100	3/26/2011 7:07:29 PM
1,1-Dichloropropene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Hexachlorobutadiene	ND	100		µg/L	100	3/26/2011 7:07:29 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
 Lab Order: 1103642
 Project: Holiday Chevron
 Lab ID: 1103642-04

Client Sample ID: MW4
 Collection Date: 3/15/2011 8:15:00 AM
 Date Received: 3/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	1000		µg/L	100	3/26/2011 7:07:29 PM
Isopropylbenzene	120	100		µg/L	100	3/26/2011 7:07:29 PM
4-Isopropyltoluene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	3/26/2011 7:07:29 PM
Methylene Chloride	ND	300		µg/L	100	3/26/2011 7:07:29 PM
n-Butylbenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
n-Propylbenzene	350	100		µg/L	100	3/26/2011 7:07:29 PM
sec-Butylbenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Styrene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
tert-Butylbenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	3/26/2011 7:07:29 PM
Tetrachloroethene (PCE)	ND	100		µg/L	100	3/26/2011 7:07:29 PM
trans-1,2-DCE	ND	100		µg/L	100	3/26/2011 7:07:29 PM
trans-1,3-Dichloropropene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2,3-Trichlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2,4-Trichlorobenzene	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1,1-Trichloroethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,1,2-Trichloroethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Trichloroethene (TCE)	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Trichlorofluoromethane	ND	100		µg/L	100	3/26/2011 7:07:29 PM
1,2,3-Trichloropropane	ND	200		µg/L	100	3/26/2011 7:07:29 PM
Vinyl chloride	ND	100		µg/L	100	3/26/2011 7:07:29 PM
Xylenes, Total	12000	150		µg/L	100	3/26/2011 7:07:29 PM
Surr: 1,2-Dichloroethane-d4	108	65.8-138		%REC	100	3/26/2011 7:07:29 PM
Surr: 4-Bromofluorobenzene	107	72.7-128		%REC	100	3/26/2011 7:07:29 PM
Surr: Dibromofluoromethane	113	69-135		%REC	100	3/26/2011 7:07:29 PM
Surr: Toluene-d8	106	86.1-134		%REC	100	3/26/2011 7:07:29 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-05

Client Sample ID: MW5
Collection Date: 3/15/2011 8:37:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	34000	1000		µg/L	1000	3/28/2011 5:21:58 PM
Toluene	48000	1000		µg/L	1000	3/28/2011 5:21:58 PM
Ethylbenzene	2900	50		µg/L	50	3/26/2011 7:35:49 PM
Methyl tert-butyl ether (MTBE)	2500	50		µg/L	50	3/26/2011 7:35:49 PM
1,2,4-Trimethylbenzene	2300	50		µg/L	50	3/26/2011 7:35:49 PM
1,3,5-Trimethylbenzene	610	50		µg/L	50	3/26/2011 7:35:49 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Naphthalene	500	100		µg/L	50	3/26/2011 7:35:49 PM
1-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 7:35:49 PM
2-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 7:35:49 PM
Acetone	ND	500		µg/L	50	3/26/2011 7:35:49 PM
Bromobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Bromodichloromethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Bromoform	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Bromomethane	ND	150		µg/L	50	3/26/2011 7:35:49 PM
2-Butanone	ND	500		µg/L	50	3/26/2011 7:35:49 PM
Carbon disulfide	ND	500		µg/L	50	3/26/2011 7:35:49 PM
Carbon Tetrachloride	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Chlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Chloroethane	ND	100		µg/L	50	3/26/2011 7:35:49 PM
Chloroform	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Chloromethane	ND	150		µg/L	50	3/26/2011 7:35:49 PM
2-Chlorotoluene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
4-Chlorotoluene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
cis-1,2-DCE	ND	50		µg/L	50	3/26/2011 7:35:49 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	3/26/2011 7:35:49 PM
Dibromochloromethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Dibromomethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Dichlorodifluoromethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1-Dichloroethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1-Dichloroethene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2-Dichloropropane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,3-Dichloropropane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
2,2-Dichloropropane	ND	100		µg/L	50	3/26/2011 7:35:49 PM
1,1-Dichloropropene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Hexachlorobutadiene	ND	50		µg/L	50	3/26/2011 7:35:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-05

Client Sample ID: MW5
Collection Date: 3/15/2011 8:37:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	500		µg/L	50	3/26/2011 7:35:49 PM
Isopropylbenzene	94	50		µg/L	50	3/26/2011 7:35:49 PM
4-Isopropyltoluene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	3/26/2011 7:35:49 PM
Methylene Chloride	ND	150		µg/L	50	3/26/2011 7:35:49 PM
n-Butylbenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
n-Propylbenzene	220	50		µg/L	50	3/26/2011 7:35:49 PM
sec-Butylbenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Styrene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
tert-Butylbenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	3/26/2011 7:35:49 PM
Tetrachloroethane (PCE)	ND	50		µg/L	50	3/26/2011 7:35:49 PM
trans-1,2-DCE	ND	50		µg/L	50	3/26/2011 7:35:49 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Trichloroethene (TCE)	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Trichlorofluoromethane	ND	50		µg/L	50	3/26/2011 7:35:49 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	3/26/2011 7:35:49 PM
Vinyl chloride	ND	50		µg/L	50	3/26/2011 7:35:49 PM
Xylenes, Total	20000	1500		µg/L	1000	3/28/2011 5:21:58 PM
Surr: 1,2-Dichloroethane-d4	110	65.8-138		%REC	50	3/26/2011 7:35:49 PM
Surr: 4-Bromofluorobenzene	107	72.7-128		%REC	50	3/26/2011 7:35:49 PM
Surr: Dibromofluoromethane	116	69-135		%REC	50	3/26/2011 7:35:49 PM
Surr: Toluene-d8	104	86.1-134		%REC	50	3/26/2011 7:35:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-06

Client Sample ID: MW3
Collection Date: 3/15/2011 8:40:00 AM
Date Received: 3/16/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	36000	1000		µg/L	1000	3/28/2011 5:50:21 PM
Toluene	36000	1000		µg/L	1000	3/28/2011 5:50:21 PM
Ethylbenzene	3100	50		µg/L	50	3/26/2011 8:04:05 PM
Methyl tert-butyl ether (MTBE)	5400	50		µg/L	50	3/26/2011 8:04:05 PM
1,2,4-Trimethylbenzene	2100	50		µg/L	50	3/26/2011 8:04:05 PM
1,3,5-Trimethylbenzene	570	50		µg/L	50	3/26/2011 8:04:05 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Naphthalene	370	100		µg/L	50	3/26/2011 8:04:05 PM
1-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 8:04:05 PM
2-Methylnaphthalene	ND	200		µg/L	50	3/26/2011 8:04:05 PM
Acetone	ND	500		µg/L	50	3/26/2011 8:04:05 PM
Bromobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Bromodichloromethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Bromoform	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Bromomethane	ND	150		µg/L	50	3/26/2011 8:04:05 PM
2-Butanone	ND	500		µg/L	50	3/26/2011 8:04:05 PM
Carbon disulfide	ND	500		µg/L	50	3/26/2011 8:04:05 PM
Carbon Tetrachloride	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Chlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Chloroethane	ND	100		µg/L	50	3/26/2011 8:04:05 PM
Chloroform	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Chloromethane	ND	150		µg/L	50	3/26/2011 8:04:05 PM
2-Chlorotoluene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
4-Chlorotoluene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
cis-1,2-DCE	ND	50		µg/L	50	3/26/2011 8:04:05 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	3/26/2011 8:04:05 PM
Dibromochloromethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Dibromomethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Dichlorodifluoromethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1-Dichloroethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1-Dichloroethene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2-Dichloropropane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,3-Dichloropropane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
2,2-Dichloropropane	ND	100		µg/L	50	3/26/2011 8:04:05 PM
1,1-Dichloropropene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Hexachlorobutadiene	ND	50		µg/L	50	3/26/2011 8:04:05 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
 Lab Order: 1103642
 Project: Holiday Chevron
 Lab ID: 1103642-06

Client Sample ID: MW3
 Collection Date: 3/15/2011 8:40:00 AM
 Date Received: 3/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	500		µg/L	50	3/26/2011 8:04:05 PM
Isopropylbenzene	99	50		µg/L	50	3/26/2011 8:04:05 PM
4-Isopropyltoluene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	3/26/2011 8:04:05 PM
Methylene Chloride	ND	150		µg/L	50	3/26/2011 8:04:05 PM
n-Butylbenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
n-Propylbenzene	290	50		µg/L	50	3/26/2011 8:04:05 PM
sec-Butylbenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Styrene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
tert-Butylbenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	3/26/2011 8:04:05 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	3/26/2011 8:04:05 PM
trans-1,2-DCE	ND	50		µg/L	50	3/26/2011 8:04:05 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Trichloroethene (TCE)	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Trichlorofluoromethane	ND	50		µg/L	50	3/26/2011 8:04:05 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	3/26/2011 8:04:05 PM
Vinyl chloride	ND	50		µg/L	50	3/26/2011 8:04:05 PM
Xylenes, Total	15000	1500		µg/L	1000	3/28/2011 5:50:21 PM
Surr: 1,2-Dichloroethane-d4	106	65.8-138		%REC	50	3/26/2011 8:04:05 PM
Surr: 4-Bromofluorobenzene	108	72.7-128		%REC	50	3/26/2011 8:04:05 PM
Surr: Dibromofluoromethane	114	69-135		%REC	50	3/26/2011 8:04:05 PM
Surr: Toluene-d8	102	86.1-134		%REC	50	3/26/2011 8:04:05 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
Lab Order: 1103642
Project: Holiday Chevron
Lab ID: 1103642-07

Client Sample ID: Trip Blank
Collection Date:
Date Received: 3/16/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Toluene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Ethylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Naphthalene	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2011 8:32:12 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	3/26/2011 8:32:12 PM
Acetone	ND	10		µg/L	1	3/26/2011 8:32:12 PM
Bromobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Bromodichloromethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Bromoform	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Bromomethane	ND	3.0		µg/L	1	3/26/2011 8:32:12 PM
2-Butanone	ND	10		µg/L	1	3/26/2011 8:32:12 PM
Carbon disulfide	ND	10		µg/L	1	3/26/2011 8:32:12 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Chlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Chloroethane	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
Chloroform	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Chloromethane	ND	3.0		µg/L	1	3/26/2011 8:32:12 PM
2-Chlorotoluene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
4-Chlorotoluene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
cis-1,2-DCE	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
Dibromochloromethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Dibromomethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Mar-11

CLIENT: EA Engineering
 Lab Order: 1103642
 Project: Holiday Chevron
 Lab ID: 1103642-07

Client Sample ID: Trip Blank
 Collection Date:
 Date Received: 3/16/2011
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2-Hexanone	ND	10		µg/L	1	3/26/2011 8:32:12 PM
Isopropylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	3/26/2011 8:32:12 PM
Methylene Chloride	ND	3.0		µg/L	1	3/26/2011 8:32:12 PM
n-Butylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
n-Propylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
sec-Butylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Styrene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
tert-Butylbenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
trans-1,2-DCE	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/26/2011 8:32:12 PM
Vinyl chloride	ND	1.0		µg/L	1	3/26/2011 8:32:12 PM
Xylenes, Total	ND	1.5		µg/L	1	3/26/2011 8:32:12 PM
Surr: 1,2-Dichloroethane-d4	101	65.8-138		%REC	1	3/26/2011 8:32:12 PM
Surr: 4-Bromofluorobenzene	108	72.7-128		%REC	1	3/26/2011 8:32:12 PM
Surr: Dibromofluoromethane	110	69-135		%REC	1	3/26/2011 8:32:12 PM
Surr: Toluene-d8	106	86.1-134		%REC	1	3/26/2011 8:32:12 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R44333 Analysis Date: 3/24/2011 1:27:13 PM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb	<i>MBLK</i>		Batch ID: R44333	Analysis Date: 3/24/2011 1:27:13 PM
4-Methyl-2-pentanone	ND	µg/L	10	
Methylene Chloride	ND	µg/L	3.0	
n-Butylbenzene	ND	µg/L	1.0	
n-Propylbenzene	ND	µg/L	1.0	
sec-Butylbenzene	ND	µg/L	1.0	
Styrene	ND	µg/L	1.0	
tert-Butylbenzene	ND	µg/L	1.0	
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0	
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0	
Tetrachloroethene (PCE)	ND	µg/L	1.0	
trans-1,2-DCE	ND	µg/L	1.0	
trans-1,3-Dichloropropene	ND	µg/L	1.0	
1,2,3-Trichlorobenzene	ND	µg/L	1.0	
1,2,4-Trichlorobenzene	ND	µg/L	1.0	
1,1,1-Trichloroethane	ND	µg/L	1.0	
1,1,2-Trichloroethane	ND	µg/L	1.0	
Trichloroethene (TCE)	ND	µg/L	1.0	
Trichlorofluoromethane	ND	µg/L	1.0	
1,2,3-Trichloropropane	ND	µg/L	2.0	
Vinyl chloride	ND	µg/L	1.0	
Xylenes, Total	ND	µg/L	1.5	

Sample ID: 5ml rb	<i>MBLK</i>		Batch ID: R44366	Analysis Date: 3/26/2011 9:43:26 AM
Benzene	ND	µg/L	1.0	
Toluene	ND	µg/L	1.0	
Ethylbenzene	ND	µg/L	1.0	
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0	
1,2,4-Trimethylbenzene	ND	µg/L	1.0	
1,3,5-Trimethylbenzene	ND	µg/L	1.0	
1,2-Dichloroethane (EDC)	ND	µg/L	1.0	
1,2-Dibromoethane (EDB)	ND	µg/L	1.0	
Naphthalene	ND	µg/L	2.0	
1-Methylnaphthalene	ND	µg/L	4.0	
2-Methylnaphthalene	ND	µg/L	4.0	
Acetone	ND	µg/L	10	
Bromobenzene	ND	µg/L	1.0	
Bromodichloromethane	ND	µg/L	1.0	
Bromoform	ND	µg/L	1.0	
Bromomethane	ND	µg/L	3.0	
2-Butanone	ND	µg/L	10	
Carbon disulfide	ND	µg/L	10	
Carbon Tetrachloride	ND	µg/L	1.0	
Chlorobenzene	ND	µg/L	1.0	
Chloroethane	ND	µg/L	2.0	
Chloroform	ND	µg/L	1.0	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R44366 Analysis Date: 3/26/2011 9:43:26 AM

Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: B7

MBLK

Batch ID: R44366 Analysis Date: 3/27/2011 12:44:59 AM

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: B7		MBLK									
				Batch ID:	R44366	Analysis Date:	3/27/2011 12:44:59 AM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EOB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: B7

MBLK

Batch ID: R44366 Analysis Date: 3/27/2011 12:44:59 AM

4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b3

MBLK

Batch ID: R44384 Analysis Date: 3/28/2011 11:43:33 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	ND	µg/L	1.0
Naphthalene	ND	µg/L	2.0
1-Methylnaphthalene	ND	µg/L	4.0
2-Methylnaphthalene	ND	µg/L	4.0
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
 Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b3		<i>MBLK</i>									
				Batch ID:	R44384	Analysis Date:	3/28/2011 11:43:33 AM				
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		<i>LCS</i>									
				Batch ID:	R44333	Analysis Date:	3/24/2011 2:23:35 PM				

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: EA Engineering
Project: Holiday Chevron

Work Order: 1103642

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 100ng lcs		<i>LCS</i>				Batch ID: R44333	Analysis Date: 3/24/2011 2:23:35 PM				
Benzene	19.47	µg/L	1.0	20	0	97.4	85.2	121			
Toluene	19.82	µg/L	1.0	20	0	99.1	88.3	121			
Chlorobenzene	19.19	µg/L	1.0	20	0	95.9	91.9	110			
1,1-Dichloroethene	21.64	µg/L	1.0	20	0	108	91.5	134			
Trichloroethene (TCE)	17.54	µg/L	1.0	20	0	87.7	78.3	102			
Sample ID: 100ng lcsc		<i>LCS</i>				Batch ID: R44366	Analysis Date: 3/26/2011 3:21:59 PM				
Benzene	21.53	µg/L	1.0	20	0.4042	106	85.2	121			
Toluene	22.16	µg/L	1.0	20	0	111	88.3	121			
Chlorobenzene	21.25	µg/L	1.0	20	0	106	91.9	110			
1,1-Dichloroethene	24.57	µg/L	1.0	20	0	123	91.5	134			
Trichloroethene (TCE)	20.48	µg/L	1.0	20	0	102	78.3	102	S		
Sample ID: 100NG LCS-2		<i>LCS</i>				Batch ID: R44366	Analysis Date: 3/27/2011 10:33:37 AM				
Benzene	21.40	µg/L	1.0	20	0.4042	105	85.2	121			
Toluene	22.13	µg/L	1.0	20	0	111	88.3	121			
Chlorobenzene	21.05	µg/L	1.0	20	0	105	91.9	110			
1,1-Dichloroethene	23.69	µg/L	1.0	20	0	118	91.5	134			
Trichloroethene (TCE)	20.40	µg/L	1.0	20	0	102	78.3	102	S		
Sample ID: 100ng lcs		<i>LCS</i>				Batch ID: R44384	Analysis Date: 3/28/2011 12:38:42 PM				
Benzene	21.44	µg/L	1.0	20	0	107	85.2	121			
Toluene	21.22	µg/L	1.0	20	0	106	88.3	121			
Chlorobenzene	20.47	µg/L	1.0	20	0	102	91.9	110			
1,1-Dichloroethene	25.09	µg/L	1.0	20	0	125	91.5	134			
Trichloroethene (TCE)	20.01	µg/L	1.0	20	0	100	78.3	102			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name EA ENGINEERING ALB

Date Received:

3/16/2011

Work Order Number 1103642

Received by: MMG

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

Date

MG

Matrix:

Carrier name: Client drop-off

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 5.6° <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

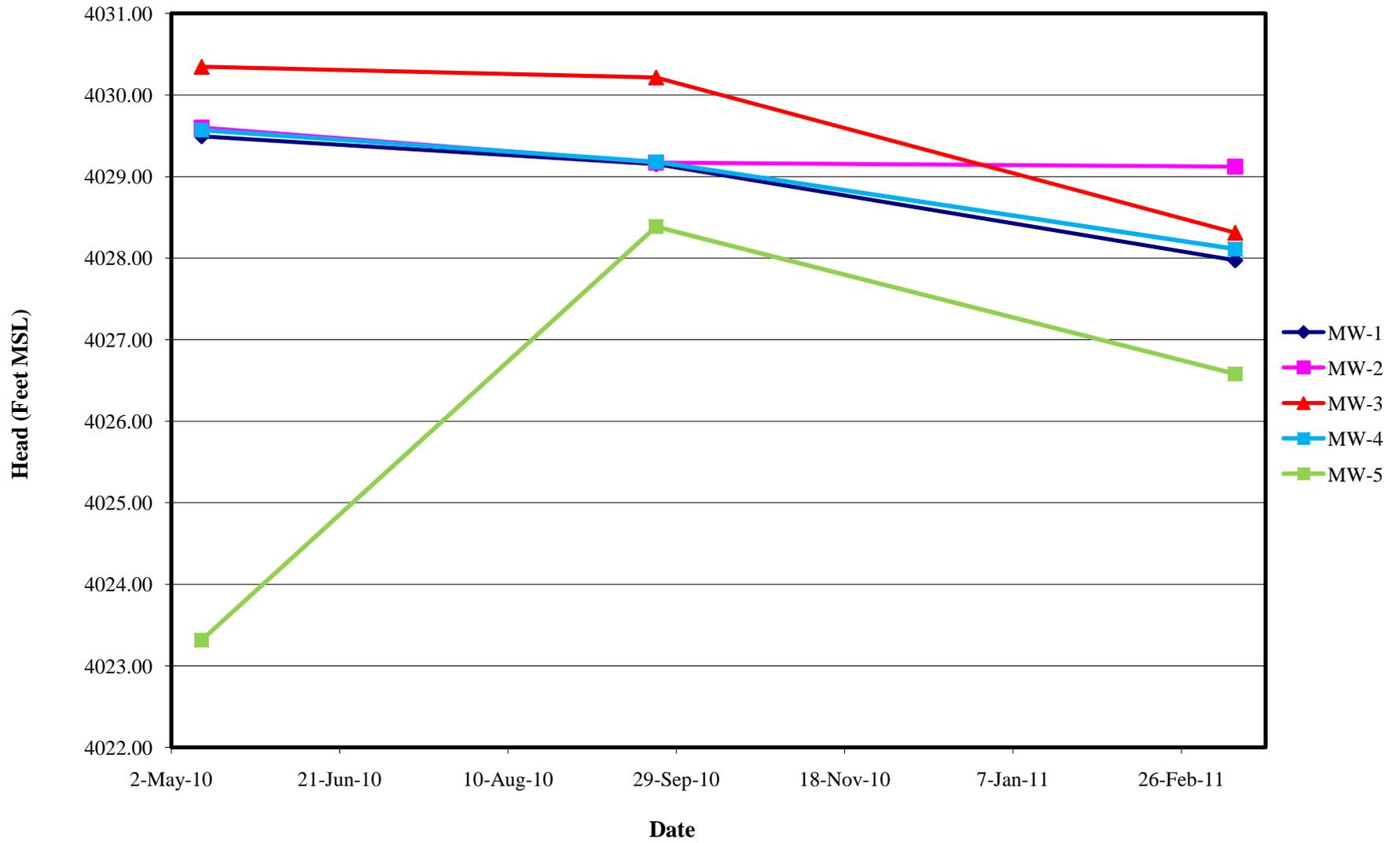
Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

**APPENDIX C
HYDROGRAPHS**

HYDROGRAPH



**APPENDIX D
CONCENTRATION TRENDS**

Benzene Concentration Trends

