April 15, 2015

Mr. Dave Bjostad
California Regional Water Quality Control Board
Los Angeles Region
320 West Fourth Street, Suite 200
Los Angeles, CA 90013

***Subject*:** **First Quarter 2015 Semi-Annual Groundwater Monitoring and Progress Report**
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
LARWQCB Case No. 902920116A

Dear Mr. Bjostad:

On behalf of Chevron Environmental Management Company (EMC), Leidos Engineering, LLC (hereafter, Leidos), is pleased to submit this Semi-annual Groundwater Monitoring and Progress Report for the above-mentioned site. Work performed this quarter included groundwater monitoring by Blaine Tech Services, Inc. Electronic Deliverable Format (EDF) files have been uploaded to the State Water Resources Control Board GeoTracker website. This site is monitored during the first and third quarters only.

If you have any questions, please contact Ms. Amy Mora, the Leidos Project Manager, at (714) 257-6415, or Mr. Eugene Francisco, the EMC Project Manager, at (714) 671-3230.

Respectfully submitted,

Leidos Engineering, LLC

Cory Davis
Staff Geologist

James M. Haslett
Professional Geologist No. 5641

PROFESSIONAL GEOLOGIST
JAMES M. HASLETT
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Attachment 1 – First Quarter 2015 Semi-Annual Progress Report
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cc: Mr. Eugene Francisco, EMC
Mr. Bhupinder Mac, Marina Lincoln, Inc.
Leidos Project File

ATTACHMENT 1

FIRST QUARTER 2015 SEMI-ANNUAL PROGRESS REPORT

1. SITE INFORMATION:

- Site Case No. 902920116A
- Site Name Chevron Service Station No. 9-3910
- Address 4680 Lincoln Boulevard
- City Marina Del Rey, California

2. RESPONSIBLE PARTY INFORMATION:

- Contact Mr. Eugene Francisco
- Company Chevron Environmental Management Company
- Address P.O. Box 2292
- City / Zip Brea, California 92822-2292
- Phone (714) 671-3230

3. CONSULTANT INFORMATION:

- Contact Ms. Amy Mora
- Company Leidos Engineering, LLC
- Address 590 West Central Avenue, Suite I
- City / Zip Brea, California 92821
- Phone (714) 257-6415

4. WORK PERFORMED THIS PERIOD:

- Groundwater monitoring

5. WORK PROPOSED FOR NEXT PERIOD:

- Groundwater monitoring
- Evaluate groundwater conditions and propose Low Threat Closure

6. CURRENT PHASE OF PROJECT (Initial Assessment, Additional Assessment, Corrective Action Plan (CAP), Remediation, Post-Remediation Monitoring, etc.):

- Groundwater monitoring

7. DESCRIBE CORRECTIVE AND REMEDIAL TECHNIQUES TO BE IMPLEMENTED IN THE FUTURE AND INCLUDE TIME SCHEDULE FOR THE INITIATION OF THE ASSOCIATED ACTIVITIES (NAPL Removal, Pump and Treat, Vapor Extraction System (VES), Excavation, etc.):

- None at this time

8. CURRENTLY MONITORING (Soil, Groundwater, None):

- Groundwater

9. MONITORING FREQUENCY (Quarterly, Monthly, etc.):

- Semi-annually (First and Third Quarters)

10. DESCRIBE CORRECTIVE AND REMEDIAL TECHNIQUES, INCLUDING INVESTIGATIONS IMPLEMENTED TO DATE, WHICH WERE UNDERTAKEN TO DETERMINE THE NATURE AND EXTENT OF SOIL, GROUNDWATER, OR SURFACE WATER CONTAMINATION (NAPL Removal, Pump and Treat, VES, Excavation, etc.):

- Product lines replaced due to suspected leak - 1978
- Monitoring wells 1 through 6 installed near the UST pit near the east corner of the site – 1981
- Wells 1 through 6 were bailed to remove free product 3 times per week for a period of 10 weeks - 1981
- Four new 10,000 gallon USTs were installed in the southern corner of the site – 1981
- Two of the former USTs were removed and 1 was left in place as an extraction storage tank – 1981
- Seven groundwater monitoring wells were installed (MDR-1 through MDR-7) – 1982
- UST used as an extraction storage tanks was removed – 1989
- Monitoring wells MDR-1 through MDR-7 were destroyed - 1990.
- Monitoring wells GTW-1 through GTW-7 and GTW-9 were installed – 1990
- Groundwater monitoring was conducted between 1991 and 1996.
- One 1000 gallon UST and three 10,000 gallon USTs were removed – 1996
- Three soil borings were drilled in CalTrans right-of-way that was deeded to CalTrans to widen Lincoln Boulevard - 2005
- Baseline Site Assessment – 2008
- Groundwater monitoring well installation – March – April 2011
- Groundwater monitoring (since April 2011)

11. CUMULATIVE SOIL REMOVED TO DATE:

- Excavation and sampling conducted during removal of a 4000 gallon UST. Volume of soil removed was not reported. - 1989
- 3,235.6 tons during station upgrade activities in 1996

12. SOIL REMOVED THIS QUARTER (cubic yards):

- None

13. ARE CONTAMINATED SOILS OR LIQUIDS GENERATED FROM INVESTIGATIONS OR CLEANUPS CURRENTLY STORED ONSITE?

- No

ATTACHMENT 2

FIRST QUARTER 2015 SEMI-ANNUAL GROUNDWATER SUMMARY

GROUNDWATER MONITORING SUMMARY

CURRENT FIELD ACTIVITIES

Groundwater monitoring frequency:	Semi-annually
Activity date:	1/2/2015
Field subcontractor:	Blaine Tech Services, Inc. (BTS)
Purging method:	Submersible Pump
Purging subcontractor:	BTS
Transporter/disposal facility:	BTS and Nieto & Sons / Siemens Water Tech
Gallons of groundwater purged:	Approximately 137
Number of groundwater wells total:	6
Number of groundwater wells offsite:	0
Number of wells sampled this period:	6
Number of wells with NAPL[1]:	0
Cumulative NAPL recovered to date (gallons):	None
NAPL recovered this quarter (gallons):	None

SITE HYDROLOGY

Average groundwater elevation (of wells gauged):	3.94 feet above mean sea level (msl)
Groundwater elevation change from previous quarter:	+0.07 foot
Approximate groundwater flow direction:	Variable (north and west)
Approximate hydraulic gradient:	<0.001 ft/ft

GROUNDWATER CONDITIONS

Maximum benzene concentration:	58 micrograms per liter (µg/L) – MW-04
Minimum benzene concentration:	0.99 µg/L –MW-03 and MW-06
Historical maximum benzene concentration:	160 µg/L – MW-05 (4/26/11)
Maximum MtBE[2] concentration:	17 µg/L – MW-03
Minimum MtBE concentration:	4.2 µg/L – MW-06
Historical maximum MtBE concentration:	240 µg/L – MW-03 (1/9/14)
Maximum TBA concentration:	450 µg/L – MW-03
Minimum TBA concentration:	7.5 J µg/L – MW-05
Historical maximum TBA concentration:	2,500 µg/L – MW-03 (4/26/11)

1 = Non-aqueous phase liquid
2 = Methyl tertiary-butyl ether
3 = Tertiary-butyl alcohol

GROUNDWATER TREND AND OBSERVATIONS

- Concentrations of total petroleum hydrocarbons as gasoline, TPHd, BTEX, MTBE, and TBA are present on site. The first quarter sampling shows concentrations to be stable.
- It appears that the dissolved-phase hydrocarbon concentrations (TPHg and TPHd) are highest in the southern corner of the site, and are primarily in the general vicinity of the former UST's monitored by well MW-4.
- Compared to historical values overall, benzene and MTBE levels have diminished. The current highest benzene value is 58 µg/L in well MW-04, while the maximum MTBE concentration is 17 µg/L in MW-03.
- The groundwater gradient at this site is variable and may have some tidal influence, but always has a very low gradient that is less than 0.001 ft/ft.
- Concentrations of benzene and MTBE are below the levels detailed in the Low Threat Closure requirements and the site should be evaluated for Low Threat Closure.

REPORT LIMITATIONS

- This technical document was prepared on behalf of Chevron and is intended for its sole use and for use by the local, state or federal regulatory agency that the technical document was sent to by Leidos. Any other person or entity obtaining, using, or relying on this technical document hereby acknowledges that they do so at their own risk, and that Leidos Engineering, LLC (Leidos) shall have no responsibility or liability for the consequences thereof.

- Site history and background information provided in this technical document are based on sources that may include interviews with environmental regulatory agencies and property management personnel and a review of acquired environmental regulatory agency documents and property information obtained from EMC and others. Leidos has not made, nor has it been asked to make, any independent investigation concerning the accuracy, reliability, or completeness of such information beyond that described in this technical document.

- Recognizing reasonable limits of time and cost, this technical document cannot wholly eliminate uncertainty regarding the vertical and lateral extent of impacted environmental media.

- Opinions and recommendations presented in this technical document apply only to site conditions and features as they existed at the time of Leidos's site visits or site work and cannot be applied to conditions and features of which Leidos is unaware and has not had the opportunity to evaluate.

- All sources of information on which Leidos has relied in making its conclusions (including direct field observations) are identified by reference in this technical document or in appendices attached to this technical document. Any information not listed by reference or in appendices has not been evaluated or relied upon by Leidos in the context of this technical document. The conclusions, therefore, represent our professional opinion based on the identified sources of information.

ATTACHMENT 3

TABLES

Table 1. Current Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-01	1/2/2015	11.63	5-25	7.74	3.89	24.43	**150**	**72 HD**	**11**	**0.33 J**	**0.68 J**	**3.6 JA**	**11**	**50**	ND<0.33	ND<0.22	**32**	**150**	--
MW-02	1/2/2015	11.77	5-25	7.75	4.02	24.35	**230**	**120 HD**	**18**	**0.92 J**	**2.9**	**6.5 JA**	**6.0**	**13**	ND<0.33	ND<0.22	**12**	**56 J**	--
MW-03	1/2/2015	11.64	5-25	7.71	3.93	24.40	**150**	**67 HD**	**0.99**	ND<0.24	ND<0.14	**2.2 JA**	**17**	**150**	**0.54 J**	**0.29 J**	**450**	ND<50	--
MW-04	1/2/2015	11.19	5-25	7.29	3.90	25.10	**11,000**	**5,200 HD**	**58**	**3.3 J**	**28**	**4.6 JA**	**11**	**5.2 J**	ND<1.7	ND<1.1	**120**	ND<250	--
MW-05	1/2/2015	11.15	4.5-24.5	7.24	3.91	24.47	**61**	**80 HD**	**4.8**	**0.3 J**	**0.51 J**	**0.45 JA**	**8.1**	ND<0.44	ND<0.33	ND<0.22	**7.5 J**	ND<50	--
MW-06	1/2/2015	11.82	4.5-24.5	7.85	3.97	24.42	**45**	**52 HD**	**0.99**	ND<0.24	**1.1**	ND<0.23	**4.2**	ND<0.44	ND<0.33	ND<0.22	**42**	ND<50	--
Trip Blank	1/2/2015	--	--	--	--	--	ND<31	ND<11	ND<0.14	ND<0.24	ND<0.14	ND<0.23	ND<0.31	ND<0.44	ND<0.33	ND<0.22	ND<4.6	ND<50	--

Notes:
ft MSL = feet above mean sea level
ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
µg/L = micrograms per liter
Detected concentrations are shown in **BOLD**
-- = Not sampled or not analyzed
< = not detected above the method detection limits (MDL); value shown is the MDL
J = denotes value between method detection limit and detection limit for reporting purposes
JA = Analyte positively identified but quantitination is an estimate
HD = the chromatographic pattern was inconsistent with the profile of the reference fuel standard
Benzene, toluene, ethylbenzene, and total xylenes (collectively termed BTEX) analyzed by EPA Method 8260B
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B
MtBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
EtBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
GTW-1	10/1/1990	10.00	--	--	--	--	**2,300**	--		**680**	**150**	**67**	**230**	--	--	--	--	--	--	
GTW-1	12/6/1991	10.00	--	9.36	0.64	--	ND	--		**280**	**7**	**220**	**29**	--	--	--	--	--	--	EPA 8020
GTW-1	12/9/1992	10.00	--	9.20	0.80	20.10	ND	--		**220**	**7.1**	**10**	**21**	--	--	--	--	--	--	EPA 8020
GTW-1	2/24/1993	10.00	--	7.78	2.22	20.14	ND	--		**190**	**2.9**	**6.6**	**8.2**	--	--	--	--	--	--	EPA 8020
GTW-1	6/14/1993	10.00	--	8.43	1.57	20.12	ND	--		**150**	**1.3**	**1.8**	**2.9**	--	--	--	--	--	--	EPA 8020
GTW-1	9/8/1993	10.00	--	8.46	1.54	20.10	ND	--		**190**	**3.6**	**4.2**	**7.7**	--	--	--	--	--	--	EPA 8020
GTW-1	10/19/1993	10.00	--	8.64	1.36	20.11	ND	--		**180**	**3.1**	**5.7**	**8.2**	--	--	--	--	--	--	EPA 8020
GTW-1	3/24/1994	10.00	--	8.80	1.20	20.04	ND	--		**120**	**0.5**	**3.8**	**2.3**	--	--	--	--	--	--	EPA 8020
GTW-1	5/31/1994	10.00	--	9.04	0.96	20.10	ND	--		**84.7**	**0.61**	**3.5**	**2.6**	--	--	--	--	--	--	EPA 8020
GTW-1	9/8/1994	10.00	--	9.08	0.92	--	ND	--		**350**	**6.4**	**6**	**7.4**	--	--	--	--	--	--	EPA 8020
GTW-1	12/8/1994	10.00	--	9.08	0.92	20.10	ND	--		**49**	**1**	**1.9**	**3.3**	--	--	--	--	--	--	EPA 8020
GTW-1	3/8/1995	10.00	--	7.95	2.05	20.10	ND	--		**160**	**1.3**	**10**	**8.5**	--	--	--	--	--	--	EPA 8020
GTW-1	6/8/1995	10.00	--	8.51	1.49	20.10	ND	--		**550**	**1.8**	**51**	**11**	--	--	--	--	--	--	EPA 8020
GTW-1	9/8/1995	10.00	--	8.51	1.49	20.10	ND	--		**680**	ND	**30**	**3**	--	--	--	--	--	--	EPA 8020
GTW-1	12/11/1995	10.00	--	8.80	1.20	20.10	ND	--		**40**	**0.6**	**1**	ND	--	--	--	--	--	--	EPA 8020
GTW-1	3/14/1996	10.00	--	8.48	1.52	20.10	ND	--		**0.93**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-1	6/14/1996	10.00	--	8.90	1.10	20.10	ND	--		**56**	**30**	**8.3**	**27**	**890**	--	--	--	--	--	EPA 8020
GTW-2	10/1/1990	8.78	--	--	--	--	**900**	--		**43**	**37**	**31**	**84**	--	--	--	--	--	--	
GTW-2	12/6/1991	8.78	--	8.13	0.65	--	**3,000**	--		**590**	**12**	**120**	**80**	--	--	--	--	--	--	EPA 8020
GTW-2	12/9/1992	8.78	--	7.80	0.98	19.53	ND	--		**2.1**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	2/24/1993	8.78	--	6.56	2.22	19.59	ND	--		**0.4**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	6/14/1993	8.78	--	7.36	1.42	19.56	ND	--		**3.6**	**0.6**	ND	**0.8**	--	--	--	--	--	--	EPA 8020
GTW-2	9/8/1993	8.78	--	7.56	1.22	19.41	ND	--		**17**	**0.7**	**1.2**	**5**	--	--	--	--	--	--	EPA 8020
GTW-2	10/19/1993	8.78	--	7.41	1.37	18.85	ND	--		**4.3**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	3/24/1994	8.78	--	7.62	1.16	19.54	ND	--		**2.8**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	5/31/1994	8.78	--	7.60	1.18	19.58	ND	--		**1.6**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	9/8/1994	8.78	--	7.88	0.90	--	**250**	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	12/8/1994	8.78	--	7.92	0.86	19.58	**180**	--		**6**	ND	ND	**1.6**	--	--	--	--	--	--	EPA 8020
GTW-2	3/8/1995	8.78	--	6.77	2.01	19.58	**200**	--		**6.3**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	6/8/1995	8.78	--	7.36	1.42	19.58	**450**	--		**1.9**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-2	9/8/1995	8.78	--	7.31	1.47	19.58	**4,930**	--		**1,140**	70	**240**	**780**	--	--	--	--	--	--	EPA 8020
GTW-2	12/11/1995	8.78	--	7.45	1.33	19.58	**6,400**	--		**710**	**9**	**310**	**16**	--	--	--	--	--	--	EPA 8020
GTW-2	3/14/1996	8.78	--	7.57	1.21	19.58	**480**	--		**6.9**	**0.42**	**1.1**	ND	--	--	--	--	--	--	EPA 8020
GTW-2	6/14/1996	8.78	--	8.10	0.68	19.58	**73**	--		**3.5**	**0.58**	ND	**1.4**	**730**	--	--	--	--	--	EPA 8020
GTW-3	10/1/1990	9.76	--	--	--	--	**1,000**	--		**170**	**230**	**38**	**100**	--	--	--	--	--	--	ND<1 ppm (418.1)
GTW-3	12/6/1991	9.76	--	9.13	0.63	--	**210**	--		**12**	**1**	**6.4**	**6.9**	--	--	--	--	--	--	EPA 8020
GTW-3	12/9/1992	9.76	--	8.91	0.85	19.93	ND	--		**57**	ND	**17**	**17**	--	--	--	--	--	--	EPA 8020
GTW-3	2/24/1993	9.76	--	7.05	2.71	19.96	**700**	--		**210**	**4**	**46**	**13**	--	--	--	--	--	--	EPA 8020
GTW-3	6/14/1993	9.76	--	8.24	1.52	19.94	**620**	--		**170**	**1.7**	**8.6**	**17**	--	--	--	--	--	--	EPA 8020
GTW-3	9/8/1993	9.76	--	8.32	1.44	19.90	ND	--		**150**	**1.3**	**21**	**3.6**	--	--	--	--	--	--	EPA 8020
GTW-3	10/19/1993	9.76	--	8.40	1.36	19.22	**560**	--		**200**	**2.2**	**41**	**22**	--	--	--	--	--	--	EPA 8020
GTW-3	3/24/1994	9.76	--	8.58	1.18	19.93	**39,000**	--		**260**	**3.9**	**72**	**25**	--	--	--	--	--	--	EPA 8020
GTW-3	5/31/1994	9.76	--	8.86	0.90	19.95	**320**	--		**68.1**	**1.7**	**13**	**5.5**	--	--	--	--	--	--	EPA 8020
GTW-3	9/8/1994	9.76	--	8.91	0.85	--	ND	--		**8.9**	ND	**0.87**	ND	--	--	--	--	--	--	EPA 8020
GTW-3	12/8/1994	9.76	--	8.91	0.85	19.88	ND	--		**16**	**0.63**	**3.6**	**4.2**	--	--	--	--	--	--	EPA 8020
GTW-3	3/8/1995	9.76	--	7.79	1.97	19.95	**140**	--		**66**	**1**	**3.5**	**4.4**	--	--	--	--	--	--	EPA 8020
GTW-3	6/8/1995	9.76	--	8.31	1.45	19.88	ND	--		**5.8**	ND	**0.73**	ND	--	--	--	--	--	--	EPA 8020

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
GTW-3	9/8/1995	9.76	--	8.28	1.48	19.88	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-3	12/11/1995	9.76	--	8.65	1.11	19.88	ND	--		**2**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-3	3/14/1996	9.76	--	8.33	1.43	19.88	**87**	--		**20**	ND	**4.8**	**0.95**	--	--	--	--	--	--	EPA 8020
GTW-3	6/14/1996	9.76	--	8.79	0.97	19.88	ND	--		ND	ND	ND	ND	**26**	--	--	--	--	--	EPA 8020
GTW-4	10/1/1990	9.82	--	--	--	--	ND<100	--		**1.4**	**4.9**	**0.7**	**7.6**	--	--	--	--	--	--	ND<1 ppm (418.1)
GTW-4	12/6/1991	9.82	--	9.26	0.56	--	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	12/9/1992	9.82	--	9.11	0.71	20.10	ND	--		ND	ND	ND	**1**	--	--	--	--	--	--	EPA 8020
GTW-4	2/24/1993	9.82	--	7.57	2.25	20.14	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	6/14/1993	9.82	--	8.29	1.53	20.12	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	9/8/1993	9.82	--	8.41	1.41	19.66	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	10/19/1993	9.82	--	8.51	1.31	19.41	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	3/24/1994	9.82	--	8.69	1.13	20.15	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	5/31/1994	9.82	--	8.98	0.84	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	9/8/1994	9.82	--	8.93	0.89	--	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	12/8/1994	9.82	--	9.05	0.77	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	3/8/1995	9.82	--	7.78	2.04	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	6/8/1995	9.82	--	8.30	1.52	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	9/8/1995	9.82	--	8.39	1.43	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	12/11/1995	9.82	--	8.73	1.09	20.21	ND	--		**0.6**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	3/14/1996	9.82	--	8.37	1.45	20.21	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-4	6/14/1996	9.82	--	8.85	0.97	20.21	ND	--		ND	ND	ND	ND	**11**	--	--	--	--	--	EPA 8020
GTW-5	10/1/1990	8.63	--	--	--	--	ND<100	--		**3.3**	**1.9**	**0.3**	**4.4**	--	--	--	--	--	--	
GTW-5	12/6/1991	8.63	--	7.98	0.65	--	**230**	--		**68**	**0.5**	**2.2**	**5**	--	--	--	--	--	--	EPA 8020
GTW-5	12/9/1992	8.63	--	7.65	0.98	19.73	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	2/24/1993	8.63	--	6.33	2.30	19.78	ND	--		**4**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	6/14/1993	8.63	--	7.00	1.63	19.77	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	9/8/1993	8.63	--	7.11	1.52	19.36	ND	--		**1.3**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	10/19/1993	8.63	--	7.20	1.43	19.95	ND	--		**4.4**	ND	ND	**0.8**	--	--	--	--	--	--	EPA 8020
GTW-5	3/24/1994	8.63	--	7.41	1.22	19.75	ND	--		**12**	ND	ND	**0.7**	--	--	--	--	--	--	EPA 8020
GTW-5	5/31/1994	8.63	--	7.67	0.96	0.25	ND	--		**23**	ND	**1.6**	**2.7**	--	--	--	--	--	--	EPA 8020
GTW-5	9/8/1994	8.63	--	7.65	0.98	--	ND	--		**18**	ND	**1.4**	**4.5**	--	--	--	--	--	--	EPA 8020
GTW-5	12/8/1994	8.63	--	7.71	0.92	19.76	ND	--		**3**	ND	ND	**1.4**	--	--	--	--	--	--	EPA 8020
GTW-5	3/8/1995	8.63	--	6.53	2.10	19.76	ND	--		**49**	**0.73**	**4.3**	**8.7**	--	--	--	--	--	--	EPA 8020
GTW-5	6/8/1995	8.63	--	7.08	1.55	19.76	ND	--		**51**	ND	**4.4**	**7.4**	--	--	--	--	--	--	EPA 8020
GTW-5	9/8/1995	8.63	--	7.12	1.51	19.76	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	12/11/1995	8.63	--	7.55	1.08	19.76	ND	--		**0.6**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	3/14/1996	8.63	--	7.11	1.52	19.76	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-5	6/14/1996	8.63	--	7.56	1.07	19.76	ND	--		ND	ND	ND	ND	ND	--	--	--	--	--	EPA 8020
GTW-6	10/1/1990	9.75	--	--	--	--	**530**	--		**100**	**78**	**14**	**65**	--	--	--	--	--	--	
GTW-6	12/6/1991	9.75	--	9.07	0.68	--	**2,300**	--		**370**	**52**	**39**	**54**	--	--	--	--	--	--	EPA 8020
GTW-6	12/9/1992	9.75	--	8.91	0.84	20.27	ND	--		**14**	ND	**1.9**	**1.7**	--	--	--	--	--	--	EPA 8020
GTW-6	2/24/1993	9.75	--	7.45	2.30	20.30	**740**	--		**240**	**9.2**	**11**	**10**	--	--	--	--	--	--	EPA 8020
GTW-6	6/14/1993	9.75	--	8.14	1.61	20.30	**880**	--		**330**	**17**	**10**	**28**	--	--	--	--	--	--	EPA 8020
GTW-6	9/8/1993	9.75	--	8.25	1.50	20.25	ND	--		**260**	**11**	**8.1**	**25**	--	--	--	--	--	--	EPA 8020
GTW-6	10/19/1993	9.75	--	8.37	1.38	20.32	ND	--		**110**	**2.4**	**1.8**	**4.7**	--	--	--	--	--	--	EPA 8020
GTW-6	3/24/1994	9.75	--	8.54	1.21	20.27	ND	--		**17**	**2.7**	**0.3**	**2.9**	--	--	--	--	--	--	EPA 8020
GTW-6	5/31/1994	9.75	--	7.86	1.89	20.31	ND	--		**27**	**3.1**	**0.7**	**3.3**	--	--	--	--	--	--	EPA 8020

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
GTW-6	9/8/1994	9.75	--	8.41	1.34	--	ND	--		**4.4**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-6	12/8/1994	9.75	--	8.84	0.91	20.34	ND	--		**3.3**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-6	3/8/1995	9.75	--	7.63	2.12	20.52	ND	--		**5.9**	**0.44**	**0.5**	ND	--	--	--	--	--	--	EPA 8020
GTW-6	6/8/1995	9.75	--	8.21	1.54	20.34	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-6	9/8/1995	9.75	--	8.60	1.15	20.34	ND	--		**80**	**1**	**3**	**4**	--	--	--	--	--	--	EPA 8020
GTW-6	12/11/1995	9.75	--	8.63	1.12	20.34	ND	--		ND	ND	**2**	ND	--	--	--	--	--	--	EPA 8020
GTW-6	3/14/1996	9.75	--	8.21	1.54	20.34	ND	--		**51**	ND	**0.73**	**2.2**	--	--	--	--	--	--	EPA 8020
GTW-6	6/14/1996	9.75	--	8.65	1.10	20.34	**290**	--		**57**	**4.1**	**5.3**	**24**	**310**	--	--	--	--	--	EPA 8020
GTW-7	1/19/1991	7.81	--	--	--	--	**750**	--		**14**	**61**	**23**	**130**	--	--	--	--	--	--	
GTW-7	12/6/1991	7.81	--	7.16	0.65	--	**160**	--		**2.9**	**1**	**2.4**	**160**	--	--	--	--	--	--	EPA 8020
GTW-7	12/9/1992	7.81	--	6.93	0.88	20.08	ND	--		**4.6**	ND	**2.5**	ND	--	--	--	--	--	--	EPA 8020
GTW-7	2/24/1993	7.81	--	5.60	2.21	20.10	**3,300**	--		**970**	**29**	**200**	**3,300**	--	--	--	--	--	--	EPA 8020
GTW-7	6/14/1993	7.81	--	6.30	1.51	20.09	ND	--		**12**	**1.1**	**1.5**	ND	--	--	--	--	--	--	EPA 8020
GTW-7	9/8/1993	7.81	--	6.35	1.46	20.59	ND	--		**6.9**	ND	**1.2**	ND	--	--	--	--	--	--	EPA 8020
GTW-7	10/19/1993	7.81	--	6.50	1.31	19.40	ND	--		**1.9**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	3/24/1994	7.81	--	6.67	1.14	20.07	ND	--		**11**	**0.4**	**4.1**	ND	--	--	--	--	--	--	EPA 8020
GTW-7	5/31/1994	7.81	--	6.95	0.86	20.10	**410**	--		**21**	**3.1**	**14**	**410**	--	--	--	--	--	--	EPA 8020
GTW-7	9/8/1994	7.81	--	6.85	0.96	--	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	12/8/1994	7.81	--	7.06	0.75	20.10	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	3/8/1995	7.81	--	5.52	2.29	20.10	**1,100**	--		**180**	**3.7**	**37**	**1,100**	--	--	--	--	--	--	EPA 8020
GTW-7	6/8/1995	7.81	--	6.38	1.43	20.10	**320**	--		**33**	**2.8**	**29**	**320**	--	--	--	--	--	--	EPA 8020
GTW-7	9/8/1995	7.81	--	6.34	1.47	20.10	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	12/11/1995	7.81	--	6.73	1.08	20.10	ND	--		**0.5**	**2**	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	3/14/1996	7.81	--	6.37	1.44	20.10	ND	--		**2.2**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-7	6/14/1996	7.81	--	6.85	0.96	20.10	**54**	--		**1.3**	ND	ND	ND	ND	--	--	--	--	--	EPA 8020
GTW-9	1/19/1991	9.60	--	--	--	--	**2,000**	--		**54**	**64**	**63**	**250**	--	--	--	--	--	--	
GTW-9	12/6/1991	9.60	--	9.00	0.60	--	**260**	--		**19**	**3.6**	**7.2**	**16**	--	--	--	--	--	--	EPA 8020
GTW-9	12/9/1992	9.60	--	8.78	0.82	19.85	ND	--		**5.2**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	2/24/1993	9.60	--	7.33	2.27	19.87	ND	--		**17**	ND	**1.3**	**3.7**	--	--	--	--	--	--	EPA 8020
GTW-9	6/14/1993	9.60	--	8.40	1.20	19.85	ND	--		**5.4**	**0.9**	**1**	**0.7**	--	--	--	--	--	--	EPA 8020
GTW-9	9/8/1993	9.60	--	8.13	1.47	19.81	ND	--		**1**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	10/19/1993	9.60	--	8.30	1.30	19.18	ND	--		**0.6**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	3/24/1994	9.60	--	8.40	1.20	19.85	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	5/31/1994	9.60	--	8.67	0.93	19.88	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	9/8/1994	9.60	--	8.75	0.85	--	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	12/8/1994	9.60	--	8.76	0.84	19.88	ND	--		**2.1**	ND	**0.91**	ND	--	--	--	--	--	--	EPA 8020
GTW-9	3/8/1995	9.60	--	7.57	2.03	19.88	**450**	--		**5.8**	ND	**1.5**	ND	--	--	--	--	--	--	EPA 8020
GTW-9	6/8/1995	9.60	--	8.03	1.57	19.88	ND	--		**0.84**	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	9/8/1995	9.60	--	8.12	1.48	19.88	ND	--		ND	ND	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	12/11/1995	9.60	--	8.47	1.13	19.88	ND	--		**1**	**1**	ND	ND	--	--	--	--	--	--	EPA 8020
GTW-9	3/14/1996	9.60	--	8.04	1.56	19.88	**1,300**	--		**200**	**16**	**3.2**	**20**	--	--	--	--	--	--	EPA 8020
GTW-9	6/14/1996	9.60	--	8.58	1.02	19.88	**93**	--		**0.36**	ND	ND	ND	**27**	--	--	--	--	--	EPA 8020
BA-1	10/29/2008	--	--	--	--	--	**2,100**	**4,500**	**4,800**	**3**	**4**	**28**	**116**	**6**	**2**	ND<1	ND<1	**60**	ND<250	Grab Sample
BA-2	10/29/2008	--	--	--	--	--	**1,700**	ND<500	ND<2000	**3**	ND<0.5	**5**	**3.7**	**1**	ND<1	ND<1	ND<1	ND<10	ND<250	Grab Sample
BA-3	10/30/2008	--	--	--	--	--	**67**	ND<500	ND<2000	**2**	ND<0.5	ND<0.5	**0.6**	**16**	**3**	ND<1	ND<1	**30**	ND<250	Grab Sample

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
BA-4	10/31/2008	--	--	--	--	--	**50,000**	ND<500	ND<2000	**12,000**	**5,400**	**2,600**	**11,700**	**47**	ND<10	ND<10	ND<10	**180**	ND<1000	Grab Sample
BA-5	10/30/2008	--	--	--	--	--	**340**	**530**	ND<200	**220**	**43**	**110**	**340**	**29**	ND<1	**3**	ND<1	**41**	ND<250	Grab Sample
BA-6	10/30/2008	--	--	--	--	--	**2,700**	ND<500	ND<2000	**140**	**150**	**120**	**550**	**31**	**79**	ND<1	ND<1	**69**	ND<250	Grab Sample
BA-7	10/31/2008	--	--	--	--	--	**860**	**1,200**	ND<2000	**3**	ND<0.5	ND<0.5	**0.5**	**6**	ND<1	**3**	ND<1	**5,100**	ND<250	Grab Sample
BA-8	10/31/2008	--	--	--	--	--	**5,300**	ND<500	ND<2000	**52**	ND<3	**21**	**53**	**30**	**1,000**	**5**	ND<3	**52,000**	ND<250	Grab Sample
BA-9	10/31/2008	--	--	--	--	--	**290**	ND<500	ND<2000	**6**	ND<0.5	**10**	**21**	**41**	ND<1	ND<1	ND<1	ND<10	ND<250	Grab Sample
MW-01	4/26/2011	11.63	5-25	8.15	3.48	24.76	**3,900**	**100 J**		**55**	**21**	**170**	**370**	**6**	**100**	ND<0.5	ND<0.5	**3 J**	--	Well Development
MW-01	7/7/2011	11.63	5-25	7.80	3.83	24.54	**1,700**	**72 J**		**57**	**3**	**61**	**15**	**18**	**120**	ND<0.5	ND<0.5	**9**	ND<50	--
MW-01	1/17/2012	11.63	5-25	8.01	3.62	24.66	**620**	ND<87		**16**	ND<0.5	**12**	ND<0.5	**19**	**180**	ND<0.5	ND<0.5	**5**	ND<50	--
MW-01	7/3/2012	11.63	5-25	7.76	3.87	24.85	**200**	**180**		**2**	ND<0.5	ND<0.5	ND<0.5	**16**	**160**	ND<0.5	ND<0.5	ND<2	ND<50	--
MW-01	1/4/2013	11.63	5-25	7.62	4.01	24.80	**300**	**240**		**0.9 J**	ND<0.5	ND<0.5	ND<0.5	**34**	**140**	ND<0.5	**0.5 J**	**4 J**	ND<50	--
MW-01	7/18/2013	11.63	5-25	7.73	3.90	24.61	**210**	**98**		**4.1**	**0.47 J**	**1.5**	**4.2**	**11**	**120**	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-01	1/9/2014	11.63	5-25	7.63	4.00	24.62	**350**	**220**		**8.8**	ND<0.29	ND<0.38	**1.77 J**	**46**	**83**	ND<0.30	**0.82 J**	**32**	**110**	--
MW-01	7/15/2014	11.63	5-25	7.88	3.75	24.42	**450**	**120**		**75**	**1.2**	**3.1**	**31**	**22**	**67**	ND<0.33	**0.37 J**	**11**	ND<50	--
MW-01	1/2/2015	11.63	5-25	7.74	3.89	24.43	**150**	**72 HD**		**11**	**0.33 J**	**0.68 J**	**3.6 JA**	**11**	**50**	ND<0.33	ND<0.22	**32**	**150**	--
MW-02	4/26/2011	11.77	5-25	8.45	3.32	24.25	**480**	**63 J**		**43**	**9**	**33**	**45**	**4**	**21**	ND<0.5	ND<0.5	ND<2	--	Well Development
MW-02	7/7/2011	11.77	5-25	8.01	3.76	24.31	**340**	**50 J**		**43**	**2**	**29**	**11**	**6**	**17**	ND<0.5	ND<0.5	ND<2	ND<50	--
MW-02	1/17/2012	11.77	5-25	8.25	3.52	24.43	**440**	ND<88		**19**	**3**	**10**	**9**	**9**	**25**	ND<0.5	ND<0.5	**3 J**	ND<50	--
MW-02	7/3/2012	11.77	5-25	7.84	3.93	24.70	**240**	ND<50		**9**	**1**	**4**	**5**	**8**	**29**	ND<0.5	ND<0.5	ND<2	ND<50	--
MW-02	1/4/2013	11.77	5-25	7.77	4.00	24.65	**430**	**180**		**48**	**1**	**3**	**4**	**13**	**18**	ND<0.5	ND<0.5	**6**	ND<50	--
MW-02	7/18/2013	11.77	5-25	7.87	3.90	24.37	**150**	**97**		**4.4**	**0.34 J**	**0.51 J**	**2.41**	**6.8**	**31**	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-02	1/9/2014	11.77	5-25	7.89	3.88	24.36	**170**	**110**		**11**	**0.67 J**	**1.7**	**4.23 J**	**6.8**	**28**	ND<0.30	**0.30 J**	ND<9.6	**44 J**	--
MW-02	7/15/2014	11.77	5-25	8.00	3.77	24.44	**290**	**77**		**7.0**	**0.40 J**	**0.55 J**	**3.3 J**	**6.5**	**15**	ND<0.33	**0.30 J**	ND<4.6	ND<50	--
MW-02	1/2/2015	11.77	5-25	7.75	4.02	24.35	**230**	**120 HD**		**18**	**0.92 J**	**2.9**	**6.5 JA**	**6.0**	**13**	ND<0.33	ND<0.22	**12**	**56 J**	--
MW-03	4/26/2011	11.64	5-25	8.16	3.48	24.65	**2,500**	**370**		**150**	**38**	**84**	**219**	**67**	**170**	**0.9 J**	**1 J**	**2,500**	ND<50	Well Development
MW-03	7/7/2011	11.64	5-25	8.00	3.64	24.30	**1,200**	**110**		**91**	**4**	**45**	**12**	**78**	**54**	ND<0.5	**1**	**410**	ND<50	--
MW-03	1/17/2012	11.64	5-25	8.76	2.88	24.48	**150**	**99 J**		**13**	**5**	**7**	**12**	**33**	**43**	ND<0.5	ND<0.5	**140**	ND<50	--
MW-03	7/3/2012	11.64	5-25	7.78	3.86	24.66	**150**	**64 J**		**11**	**2**	**1**	**5**	**52**	**48**	ND<0.5	ND<0.5	**220**	ND<50	--
MW-03	1/4/2013	11.64	5-25	7.75	3.89	24.60	**570**	**260**		**25**	ND<0.5	**1 J**	**2**	**42**	**150**	**1 J**	**0.6 J**	**1,600**	ND<50	--
MW-03	7/18/2013	11.64	5-25	7.75	3.89	24.46	**320**	**120**		**9.6**	ND<1.4	ND<1.9	ND<1.8	**31**	**160**	ND<1.5	ND<1.3	**1,700**	ND<210	--
MW-03	1/9/2014	11.64	5-25	7.94	3.70	24.44	**390**	**220**		**5.1**	**0.67 J**	**0.46 J**	**2.07 J**	**240**	**42**	**0.48 J**	**3.5**	**540**	ND<42	--
MW-03	7/15/2014	11.64	5-25	7.30	4.34	24.42	**250**	**93**		**1.0**	**0.30 J**	**0.19 J**	**1.6 J**	**19**	**150**	**0.64 J**	**0.36 J**	**570**	**85**	--
MW-03	1/2/2015	11.64	5-25	7.71	3.93	24.40	**150**	**67 HD**		**0.99**	ND<0.24	ND<0.14	**2.2 JA**	**17**	**150**	**0.54 J**	**0.29 J**	**450**	ND<50	--
MW-04	4/26/2011	11.19	5-25	7.74	3.45	25.00	**9,200**	**1,500**		**96**	**7**	**350**	**15**	**13**	**8**	ND<1	**5**	**260**	--	Well Development
MW-04	7/7/2011	11.19	5-25	7.41	3.78	25.13	**8,700**	**1,200**		**54**	**3**	**82**	**8**	**12**	**6**	ND<1	**3**	**250**	ND<100	--
MW-04	1/17/2012	11.19	5-25	7.63	3.56	25.16	**8,700**	**1,600**		**44**	**2**	**64**	**8**	**27**	**13**	ND<1	**6**	**240**	ND<100	--
MW-04	7/3/2012	11.19	5-25	7.20	3.99	25.42	**6,100**	**2,400**		**57**	ND<3	**47**	**4 J**	**15**	**6**	ND<3	ND<3	**200**	ND<250	--
MW-04	1/4/2013	11.19	5-25	7.18	4.01	25.15	**6,800**	**1,400**		**72**	**6 J**	**40**	**11**	**26**	**8 J**	ND<5	ND<5	**170**	ND<500	--
MW-04	7/18/2013	11.19	5-25	7.18	4.01	25.15	**12,000**	**5,400**		**57**	**2.6**	**44**	**6.0**	**13**	**6.7**	ND<0.30	**2.3**	**170**	ND<42	--
MW-04	1/9/2014	11.19	5-25	7.43	3.76	24.98	**9,100**	**7,200**		**69**	**2.9**	**41**	**6.8**	**14**	**7.3**	ND<0.30	**2.7**	**140**	ND<42	--

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments
MW-04	7/15/2014	11.19	5-25	7.35	3.84	25.10	**11,000**	**4,500**		**53**	**2.7**	**40**	**2.9**	**11**	**7.0**	ND<0.33	**2.5**	**230**	ND<50	--
MW-04	1/2/2015	11.19	5-25	7.29	3.90	25.10	**11,000**	**5,200 HD**		**58**	**3.3 J**	**28**	**4.6 JA**	**11**	**5.2 J**	ND<1.7	ND<1.1	**120**	ND<250	--
MW-05	4/26/2011	11.15	4.5-24.5	7.81	3.34	24.42	**1,600**	**94 J**		**160**	**68**	**59**	**310**	**3**	ND<0.5	ND<0.5	ND<0.5	**3 J**	--	Well Development
MW-05	7/7/2011	11.15	4.5-24.5	7.44	3.71	24.50	**360**	**50 J**		**86**	**5**	**20**	**26**	**4**	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<50	--
MW-05	1/17/2012	11.15	4.5-24.5	7.62	3.53	24.55	**330**	ND<85		**18**	**0.6 J**	**25**	**1**	**5**	ND<0.5	ND<0.5	ND<0.5	**4 J**	ND<50	--
MW-05	7/3/2012	11.15	4.5-24.5	7.38	3.77	24.80	**290**	**240**		**19**	ND<0.5	**9**	**0.9 J**	**6**	ND<0.5	ND<0.5	ND<0.5	**5 J**	ND<50	--
MW-05	1/4/2013	11.15	4.5-24.5	7.17	3.98	24.88	**390**	**790**		**14**	ND<0.5	ND<0.5	ND<0.5	**7**	ND<0.5	ND<0.5	ND<0.5	**41**	ND<50	--
MW-05	7/18/2013	11.15	4.5-24.5	7.21	3.94	24.54	**93**	**130**		**4.1**	ND<0.29	**1.3**	ND<0.36	**6.6**	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-05	1/9/2014	11.15	4.5-24.5	7.22	3.93	24.54	**200**	**350**		**15**	**0.35 J**	**2.3**	**0.91 J**	**8.9**	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-05	7/15/2014	11.15	4.5-24.5	7.33	3.82	24.40	**160**	**62**		**1.0**	ND<0.24	**0.39 J**	**0.48 J**	**6.4**	ND<0.44	ND<0.33	ND<0.22	**7.5 J**	ND<50	--
MW-05	1/2/2015	11.15	4.5-24.5	7.24	3.91	24.47	**61**	**80 HD**		**4.8**	**0.3 J**	**0.51 J**	**0.45 JA**	**8.1**	ND<0.44	ND<0.33	ND<0.22	**7.5 J**	ND<50	--
MW-06	4/26/2011	11.82	4.5-24.5	8.85	2.97	24.33	**840**	**62 J**		**7**	ND<0.5	**45**	**26**	**12**	ND<0.5	ND<0.5	**0.9 J**	ND<2	--	Well Development
MW-06	7/7/2011	11.82	4.5-24.5	8.11	3.71	24.42	**680**	**65 J**		**17**	ND<0.5	**36**	ND<0.5	**15**	ND<0.5	ND<0.5	**1**	ND<2	ND<50	--
MW-06	1/17/2012	11.82	4.5-24.5	8.23	3.59	24.50	**180**	ND<87		**2**	ND<0.5	**1**	ND<0.5	**16**	ND<0.5	ND<0.5	**0.9 J**	ND<2	ND<50	--
MW-06	7/3/2012	11.82	4.5-24.5	7.90	3.92	24.72	**280**	**180**		ND<0.5	ND<0.5	ND<0.5	ND<0.5	**13**	ND<0.5	ND<0.5	**0.8 J**	ND<2	ND<50	--
MW-06	1/4/2013	11.82	4.5-24.5	7.82	4.00	24.70	**370**	**350**		**1 J**	ND<0.5	ND<0.5	ND<0.5	**15**	ND<0.5	ND<0.5	**1**	**7**	ND<50	--
MW-06	7/18/2013	11.82	4.5-24.5	7.88	3.94	24.46	**52**	**130**		**1.5**	ND<0.29	**1.7**	ND<0.36	**4.8**	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-06	1/9/2014	11.82	4.5-24.5	7.88	3.94	24.46	**61**	**160**		**1.3**	ND<0.29	**1.3**	ND<0.36	**5.6**	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
MW-06	7/15/2014	11.82	4.5-24.5	8.14	3.68	24.21	**61**	**55**		**0.49 J**	ND<0.24	**0.69 J**	ND<0.23	**4.9**	ND<0.44	ND<0.33	**0.35 J**	ND<4.6	ND<50	--
MW-06	1/2/2015	11.82	4.5-24.5	7.85	3.97	24.42	**45**	**52 HD**		**0.99**	ND<0.24	**1.1**	ND<0.23	**4.2**	ND<0.44	ND<0.33	ND<0.22	**42**	ND<50	--
Trip Blank	4/26/2011	--	--	--	--	--	ND<20	--		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	--	Well Development
Trip Blank	7/7/2011	--	--	--	--	--	ND<22	--		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	--	--
Trip Blank	1/17/2012	--	--	--	--	--	ND<22	--		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<50	--
Trip Blank	7/3/2012	--	--	--	--	--	ND<22	--		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	ND<50	--
Trip Blank	1/4/2013	--	--	--	--	--	ND<22	--		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<2	--	--
Trip Blank	7/18/2013	--	--	--	--	--	ND<43	--		ND<0.27	ND<0.29	ND<0.38	ND<0.36	ND<0.27	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
Trip Blank	1/9/2014	--	--	--	--	--	ND<43	--		ND<0.27	ND<0.29	ND<0.38	ND<0.36	ND<0.27	ND<0.24	ND<0.30	ND<0.25	ND<9.6	ND<42	--
Trip Blank	7/15/2014	--	--	--	--	--	ND<31	--		ND<0.14	ND<0.24	ND<0.14	ND<0.23	ND<0.31	ND<0.44	ND<0.33	ND<0.22	ND<4.6	--	--
Trip Blank	1/2/2015	--	--	--	--	--	ND<31	--		ND<0.14	ND<0.24	ND<0.14	ND<0.23	ND<0.31	ND<0.44	ND<0.33	ND<0.22	ND<4.6	--	--

Notes:
ft MSL = feet above mean sea level
ft bgs = feet below ground surface
EPA = U.S. Environmental Protection Agency
µg/L = micrograms per liter
Detected concentrations are shown in **BOLD**
-- = Not sampled or not analyzed
< = not detected above the method detection limits (MDL); value shown is the MDL
J = denotes value between method detection limit and detection limit for reporting purposes
Benzene, toluene, ethylbenzene, and total xylenes (collectively termed BTEX) analyzed by EPA Method 8260B
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B
MtBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
EtBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Table 2. Historical Groundwater Analytical and Gauging Data
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	Date Sampled	Top of Casing (ft MSL)	Screen Interval (ft bgs)	Depth to GW (ft bgs)	GW Elevation (ft MSL)	Depth of Well (ft bgs)	TPHg (µg/L)	TPHd (µg/L)	TPHo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	ETBE (µg/L)	DIPE (µg/L)	TAME (µg/L)	TBA (µg/L)	Ethanol (µg/L)	Comments

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

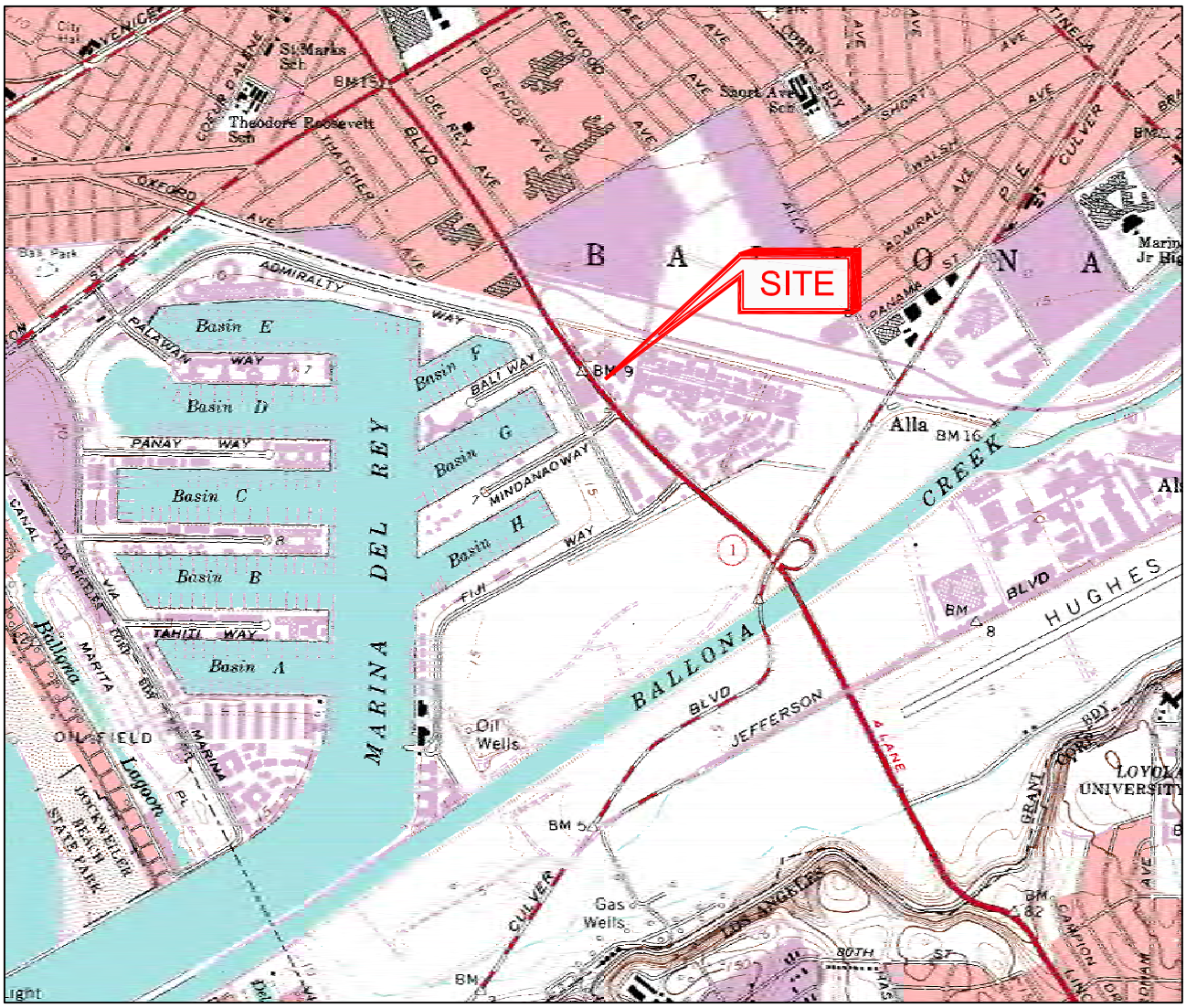
Table 3. Well Sampling Schedule
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California

Well ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Comments
MW-1	X		X		
MW-2	X		X		
MW-3	X		X		
MW-4	X		X		
MW-5	X		X		
MW-6	X		X		

NOTE: Sampling schedule as of first quarter 2015.

ATTACHMENT 4

FIGURES



REFERENCE: USGS 7.5-MINUTE QUADRANGLES, VENICE, CALIFORNIA
DATED: 1964; PHOTOREVISED: 1981

Chevron Environmental Management Company
CHEVRON SERVICE STATION NO. 9-3910
4680 LINCOLN BOULEVARD
MARINA DEL REY, CALIFORNIA

SITE LOCATION MAP

drawn	checked	approved	FIGURE NO.
HDS			1
date 3/15	date	date	
job no. 312539.01.15.B.089A	file no. SITE LOCATION MAP		

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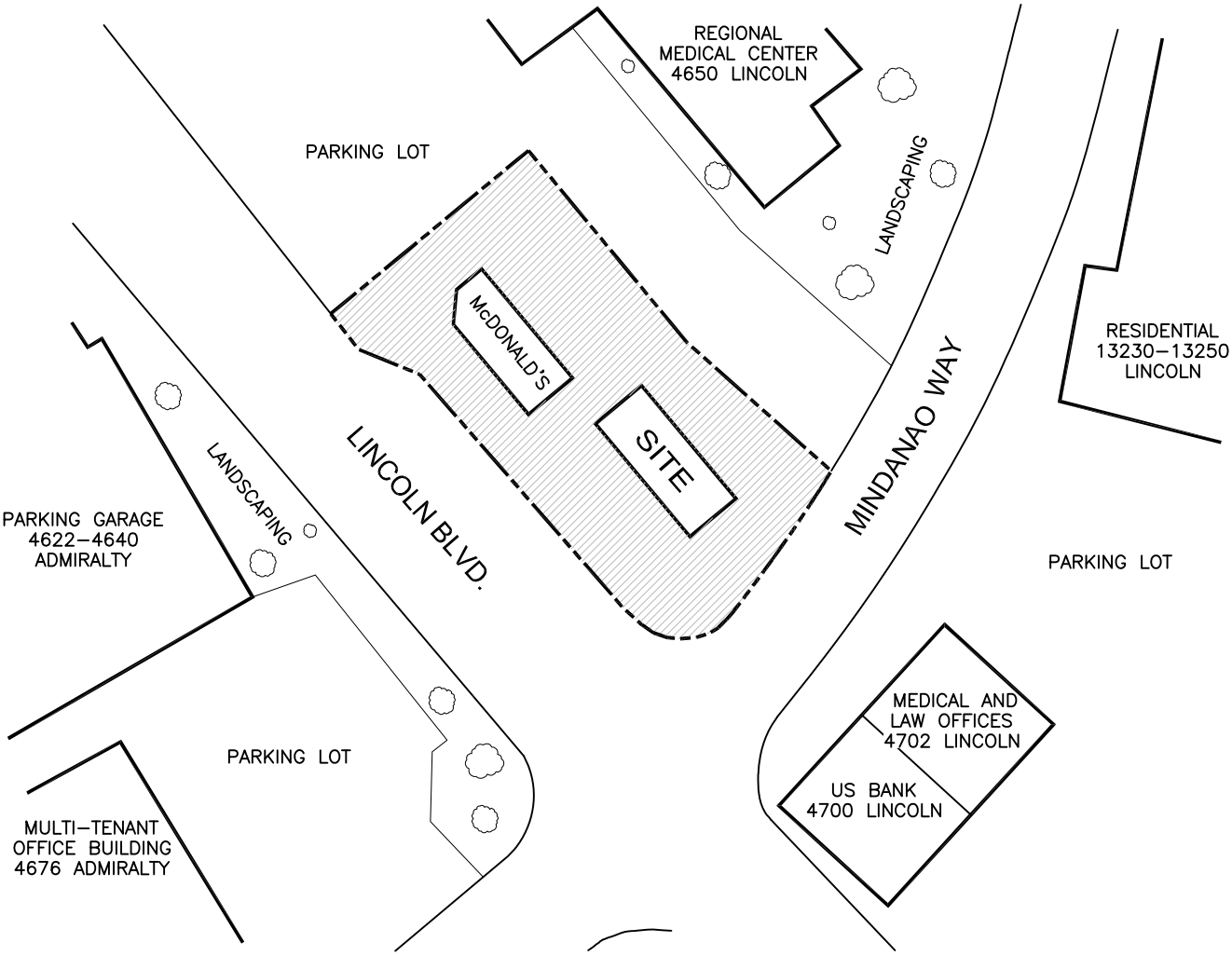

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NOT TO SCALE

Chevron Environmental Management Company
CHEVRON SERVICE STATION NO. 9-3910
4680 LINCOLN BOULEVARD
MARINA DEL REY, CALIFORNIA

SITE VICINITY MAP

drawn	checked	approved	FIGURE NO.
HDS			2
date 3/15	date	date	
job no. 312539.01.15.B.089A		file no. SITE VICINITY MAP	

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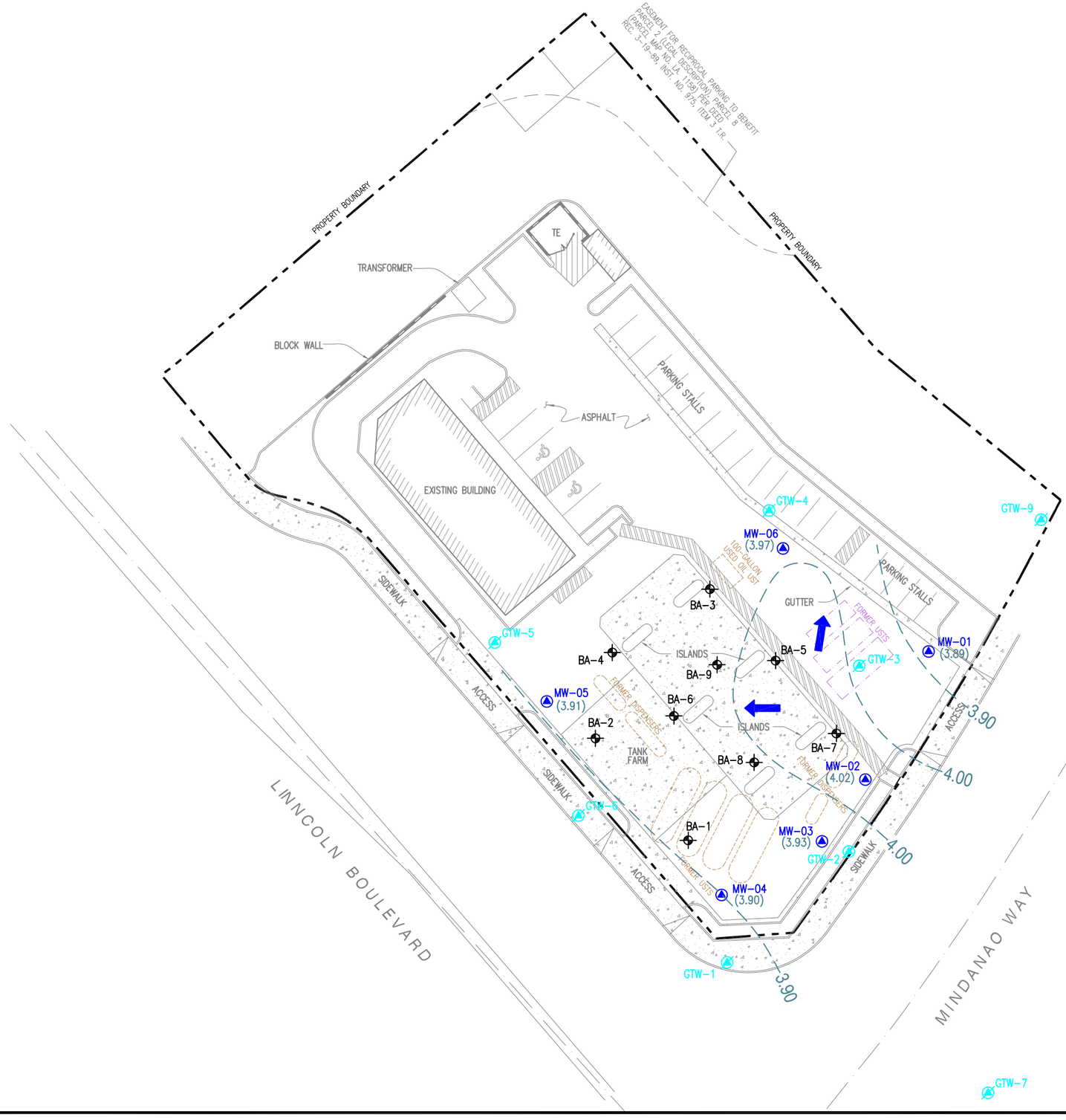

EXPLANATION

- GROUNDWATER MONITORING WELL
- FORMER GROUNDWATER MONITORING WELL (DESTROYED 1996)
- APPROXIMATE SOIL BORING LOCATION (2008)
- (4.02) GROUNDWATER ELEVATION IN FEET MEAN SEA LEVEL
- 4.00 — — — GROUNDWATER ELEVATION CONTOUR IN FEET MEAN SEA LEVEL
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW (APPROXIMATE HYDRAULIC GRADIENT = VARIABLE
- EXISTING STRUCTURES
- EXISTING STRUCTURES (1966 TO 1996)
- PREVIOUS STRUCTURES 1966 TO 1981/89)

NOTE:
ALL CONTOUR LINES ARE AN INTERPRETATION BASED ON THE RESULTS OF THE WELL GAUGING DATA FOR THIS QUARTER.

N

Scale 0 15 30 feet

Chevron Environmental Management Company
CHEVRON SERVICE STATION NO. 9-3910
4680 LINCOLN BOULEVARD
MARINA DEL REY, CALIFORNIA

GROUNDWATER CONTOUR MAP
JANUARY 2, 2015

DRAWN	CHECKED	APPROVED	FIGURE NO.
HDS			3
DATE 3/15	DATE	DATE	
JOB NO. 312539.01.15.B.089A.9404.0100		FILE NO. Q3910-GW151	

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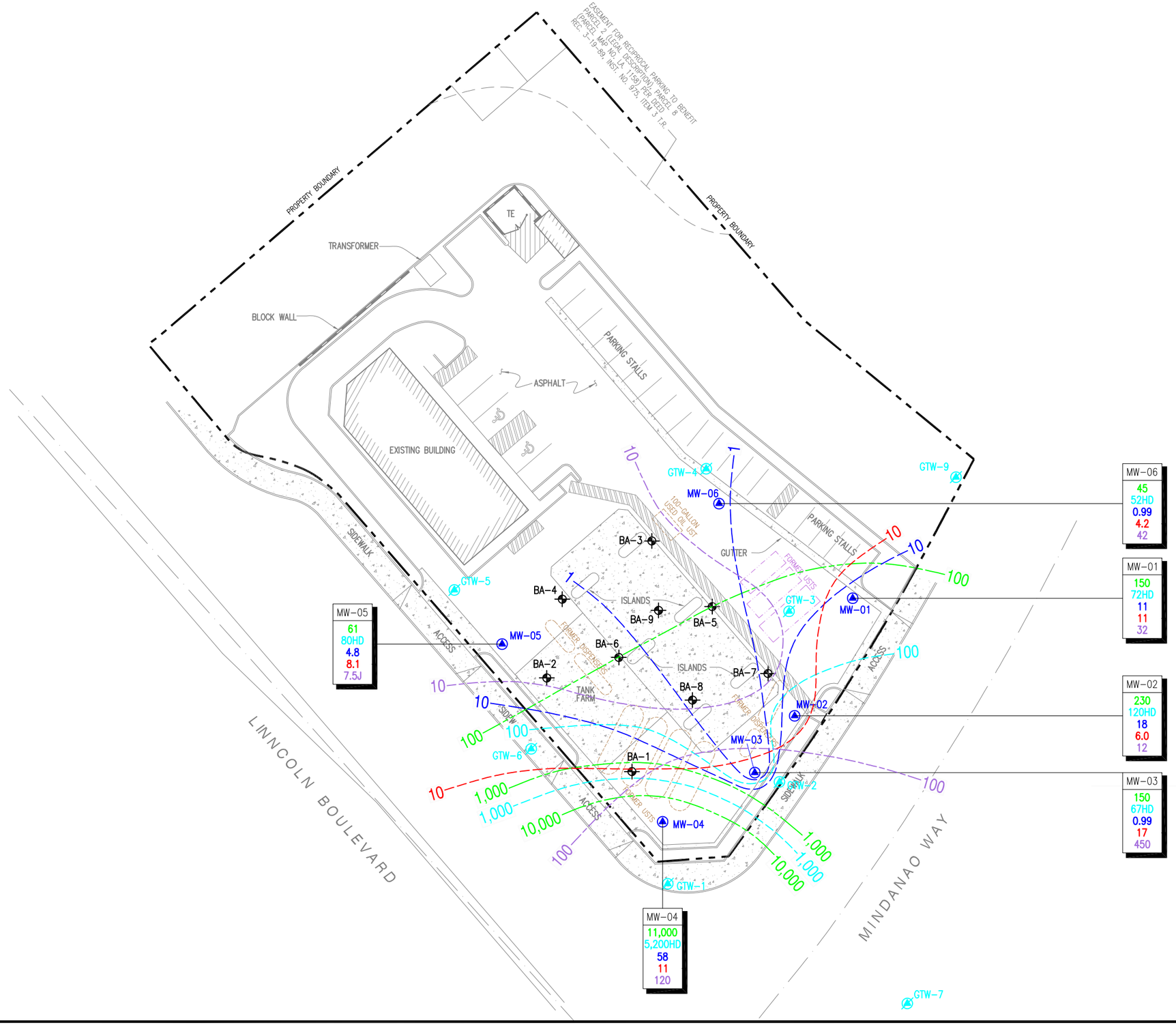


EXPLANATION

- GROUNDWATER MONITORING WELL
- FORMER GROUNDWATER MONITORING WELL (DESTROYED 1996)
- APPROXIMATE SOIL BORING LOCATION (2008)

MW-01
150 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg) [8015B]
72HD TOTAL PETROLEUM HYDROCARBONS AS DIESEL (TPHd) [8015B]
11 BENZENE [8260B]
11 METHYL TERTIARY-BUTYL ETHER (MTBE) [8260B]
32 TERTIARY-BUTYL ALCOHOL (TBA) [8260B]

ISOCONCENTRATION CONTOUR LINES

- TPHg CONCENTRATION CONTOUR IN ug/L
- TPHd CONCENTRATION CONTOUR IN ug/L
- BENZENE CONCENTRATION CONTOUR IN ug/L
- MTBE CONCENTRATION CONTOUR IN ug/L
- TBA CONCENTRATION CONTOUR IN ug/L
- EXISTING STRUCTURES
- EXISTING STRUCTURES (1966 TO 1996)
- PREVIOUS STRUCTURES 1966 TO 1981/89)

NOTES:
1. "J" DENOTES VALUE BETWEEN METHOD DETECTION LIMIT AND DETECTION LIMIT FOR REPORTING.
2. "HD" DENOTES THE CHROMATOGRAPHIC PATTERN WAS INCONSISTENT WITH THE PROFILE OF THE REFERENCE FUEL STANDARD.
3. ALL UNITS IN MICROGRAMS PER LITER (ug/L).
4. ALL CONTOUR LINES ARE AN INTERPRETATION BASED ON THE RESULTS OF WATER SAMPLES COLLECTED FOR THIS QUARTER.

N

Scale 0 15 30 feet

Chevron Environmental Management Company
CHEVRON SERVICE STATION NO. 9-3910
4680 LINCOLN BOULEVARD
MARINA DEL REY, CALIFORNIA

DISSOLVED HYDORCARBON CONCENTRATION MAP
FOR GROUNDWATER SAMPLES
JANUARY 2, 2015

DRAWN	CHECKED	APPROVED	FIGURE NO.
HDS			4
DATE 3/15	DATE	DATE	
JOB NO. 312539.01.15.B.089A.9404.0100		FILE NO. Q3910-CHEM151	

leidos

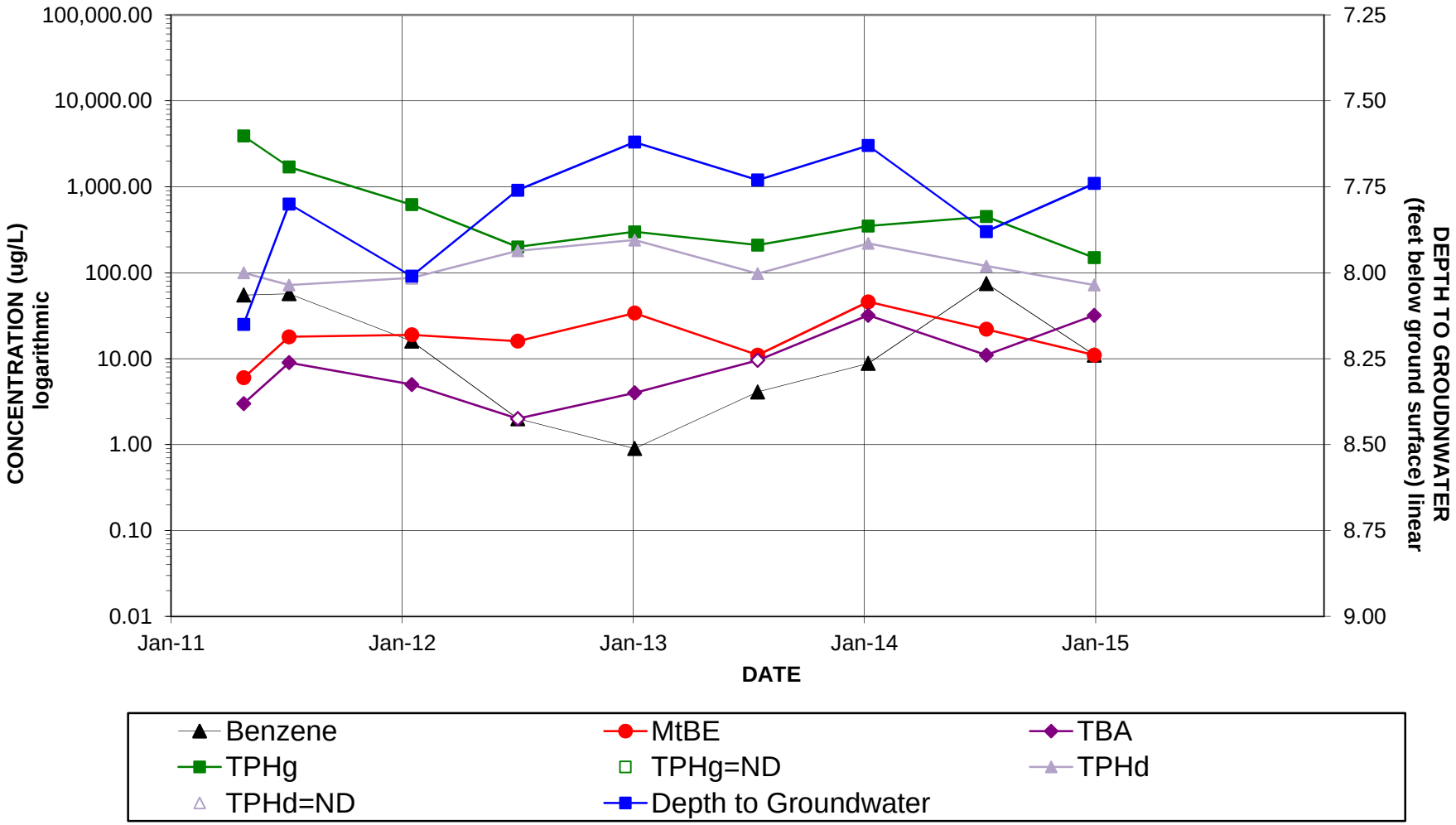
FILE: P:\EC\1039-BRE\Drafting\9-3910\2015 QTRLY\Q3910-CHEM151.dwg [Layout1]

ATTACHMENT 5

HYDROGRAPHS

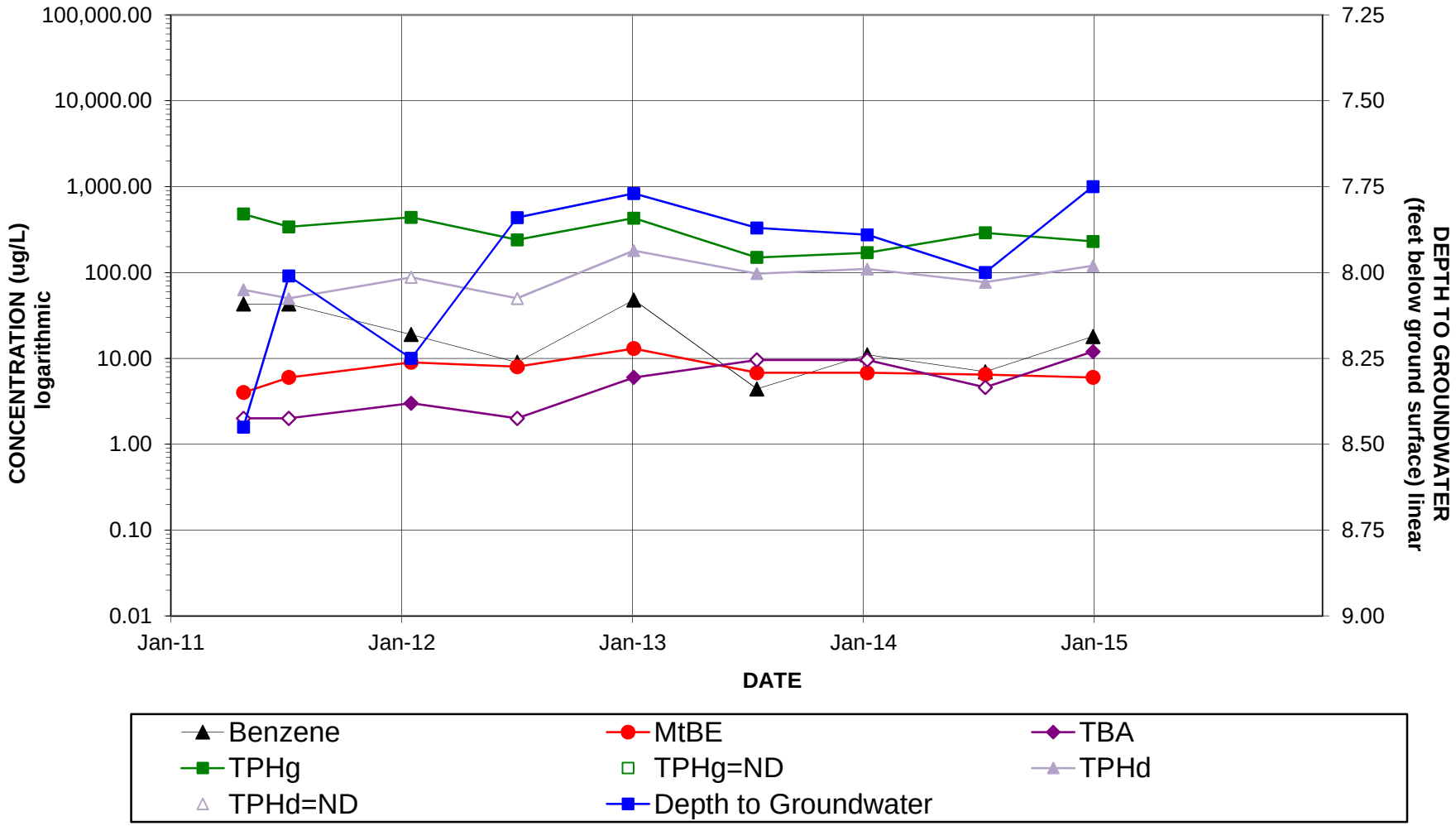
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-01

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATER VS. TIME



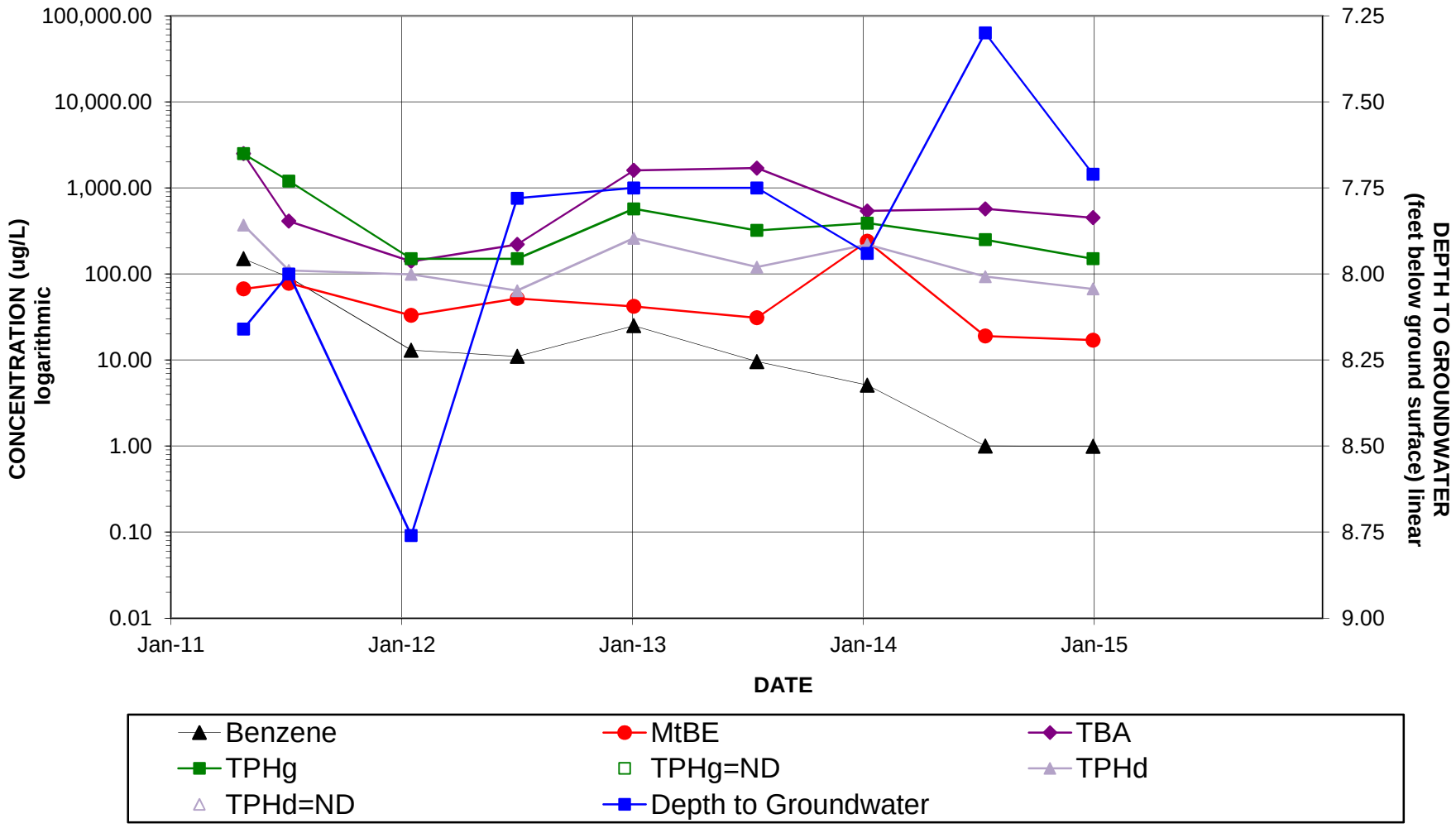
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-02

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATER VS. TIME



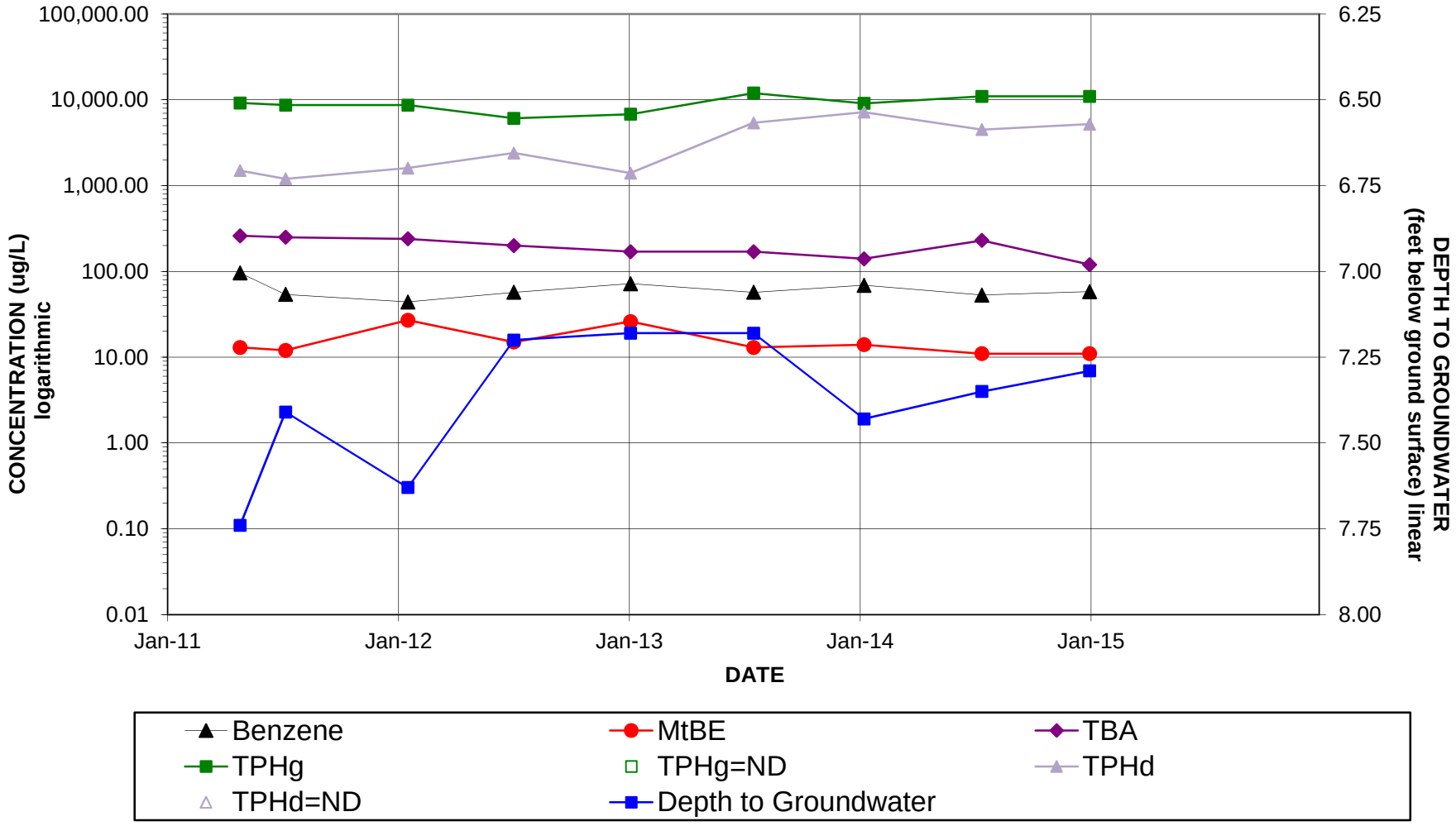
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-03

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATER VS. TIME



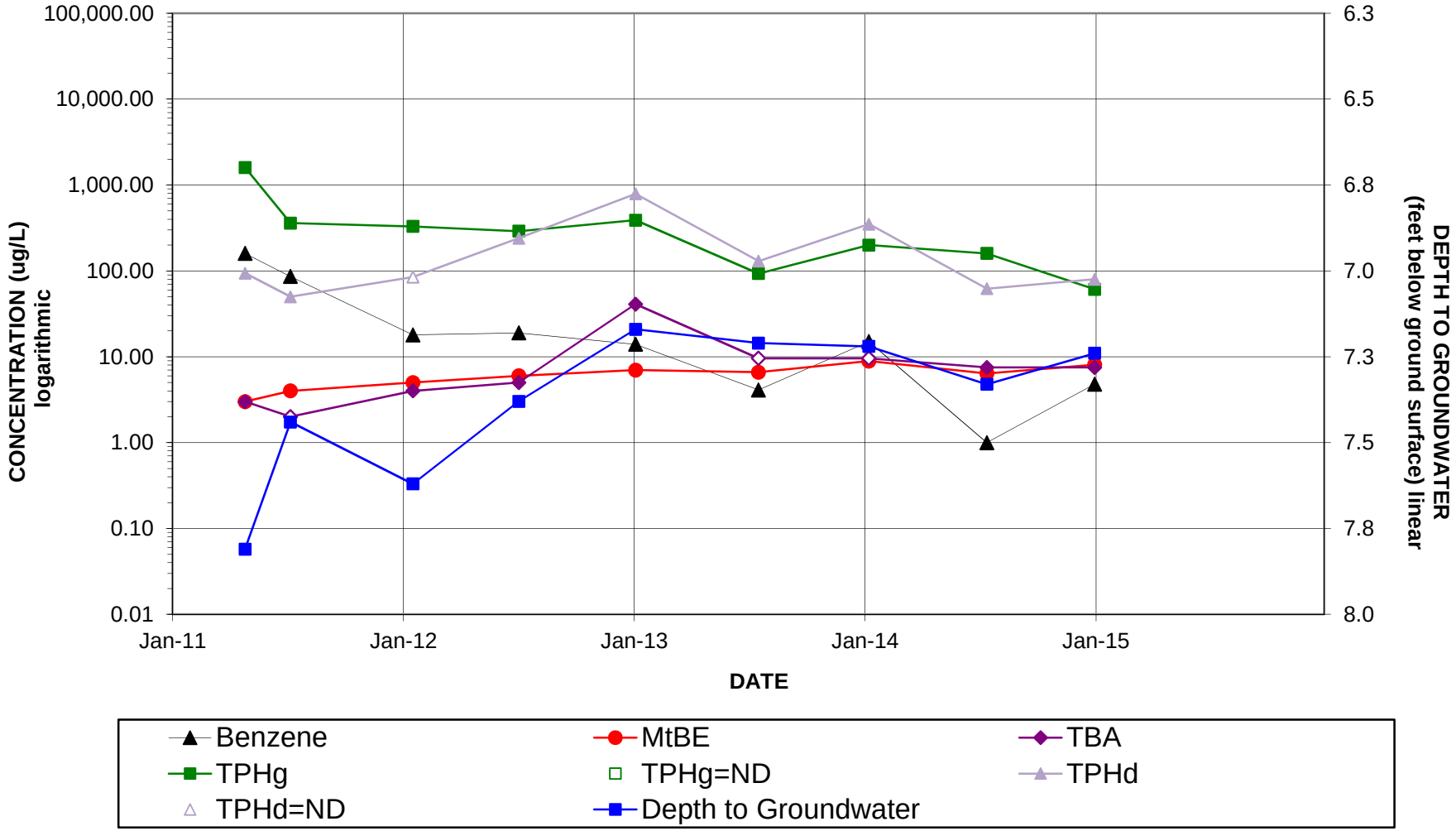
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-04

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATER VS. TIME



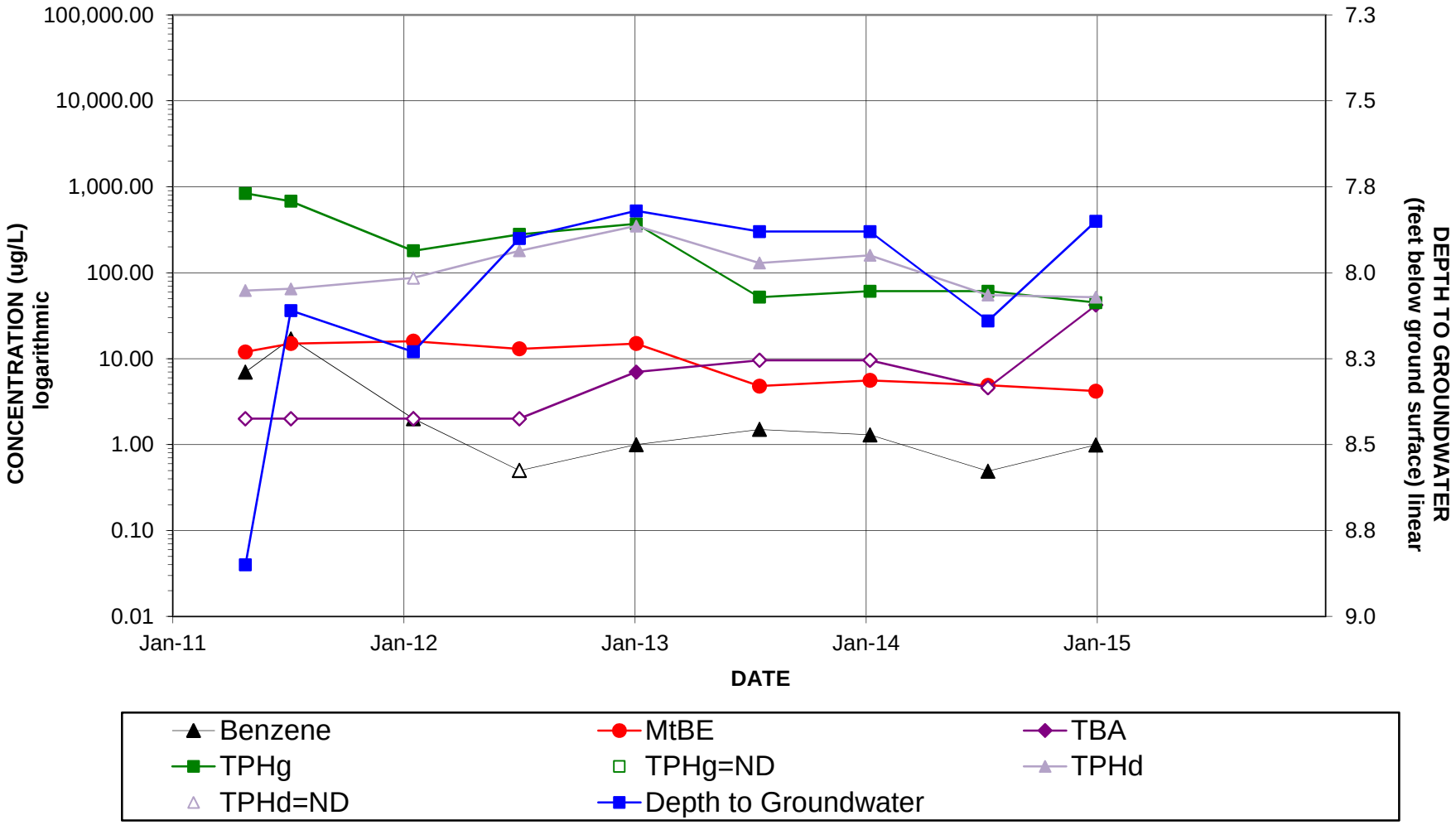
Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-05

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATERVS. TIME



Chevron Environmental Management Company
Chevron Service Station No. 9-3910
4680 Lincoln Boulevard, Marina Del Rey, California
Well MW-06

TPHg, TPHd, BENZENE, MTBE AND TBA
CONCENTRATIONS AND DEPTH TO GROUNDWATERVS. TIME



ATTACHMENT 6

GROUNDWATER SAMPLING PROCEDURES AND FIELD SHEETS

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

January 12, 2015

Chevron Environmental Management Company
Eugene Francisco
145 S. State College Blvd
Brea, CA 92821

First Quarter 2015 Monitoring at
Site Number 93910
4680 Lincoln Blvd
Marina Del Rey, CA

Monitoring performed on January 2, 2015

Blaine Tech Services, Inc. Groundwater Monitoring Event 150102BB-1

This submission covers the routine monitoring of groundwater wells conducted on January 2, 2015 at this location. Six monitoring wells were measured for depth to groundwater (DTW) and presence of separate-phase hydrocarbons (SPH). Six monitoring wells were sampled. . All sampling activities were performed in accordance with local, state and federal guidelines.

Water levels and separate-phase measurements were collected using an electronic water or oil-water interface detector. All sampled wells were purged of three case volumes or until water temperature, pH and conductivity stabilized. Purging was accomplished using electric submersible pumps, positive air-displacement pumps or stainless steel, Teflon or disposable bailers. Subsequent sample collection and sample handling was performed in accordance with EPA protocols using disposable bailers. Alternately, where applicable, wells were sampled utilizing no-purge methodology. All reused equipment was decontaminated in an integrated stainless steel sink with de-ionized water supplied Hotsy pressure washer and Liquinox or equivalent.

Samples were delivered under chain-of-custody to Calscience Laboratories, California, for analysis. Monitoring well purgewater and equipment rinsate water was collected and transported under

SAN JOSE 1680 ROGERS AVENUE SAN JOSE, CA | SACRAMENTO | LOS ANGELES (408) 573-0555 FAX (408) 573-7771 | SAN DIEGO LIC. 746684 | SEATTLE WWW.BLAINETECH.COM

bill of lading to Blaine Tech Services, Inc.'s yard in Carson, California, and bulked for future transportation under non-hazardous manifest for disposal at a licensed facility.

Enclosed documentation from this event includes copies of the Well Gauging Sheet, Well Monitoring Data Sheets, Bill of lading and Chain-of-Custody.

Blaine Tech Services, Inc.'s activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrogeologic conditions or formulation of recommendations was performed.

Please call if you have any questions.

Thank you,

Alex Stack
Blaine Tech Services, Inc.
Senior Project Manager

attachments: Well Gauging Sheet
Individual Well Monitoring Data Sheets
Chain of Custody Forms
Bill of Lading
Wellhead Inspection Form

cc: Leidos
Attn: Mike Pendergrass
590 West Central Ave., Suite 1
Brea, CA 92821

SAN JOSE SACRAMENTO LOS ANGELES SAN DIEGO SEATTLE
1680 ROGERS AVENUE SAN JOSE, CA (408) 573-0555 FAX (408) 573-7771 LIC. 746684 WWW.BLAINETECH.COM

WELL GAUGING DATA

Project # 150102-881 Date 01/02/15 Client Chevron

Site 4680 Lincoln Blvd., Marina Del Rey

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-01	1025	4	Odor				7.74	24.43		
MW-02	1015	4	Odor				7.75	24.35		
MW-03	1028	4	odor				7.71	24.40		
MW-04	~~BB~~ 1024	4	odor				7.29	25.10		
MW-05	1035	4	odor				7.24	24.47		
MW-06	1020	4	odor				7.85	24.42		

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-BB1	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature:
Well I.D.: MW-01	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.43	Depth to Water: 7.74
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.08	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ____

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ____

16.69

10.85 (Gals.) X 3 = 32.55 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1201	73.0	6.68	5817	71000	11	
1203	—	Dewatered	@		16	—
1315	72.2	6.77	6506	127	—	

Did well dewater? (Yes) No Gallons actually evacuated: 16

Sampling Date: 01/02/15 Sampling Time: 08 1316 Depth to Water: 08.15

Sample I.D.: MW-01 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-BB1	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature:
Well I.D.: MW-02	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.35	Depth to Water: 7.75
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.07	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ___

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ___

16.6

10.79 (Gals.) X 3 = 32.37 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1107	72.2	6.82	3297	71000	11	odor
1109	—	Dewatered	@		18	—
1404	71.0	6.91	3406	88	—	

Did well dewater? (Yes) No Gallons actually evacuated: 18

Sampling Date: 01/02/15 Sampling Time: 1405 Depth to Water: 8.05

Sample I.D.: MW-02 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-BB1	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature: 60's
Well I.D.: MW-03	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.40	Depth to Water: 7.71
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.05	

Purge Method:

Bailer	Waterra	16.69
Disposable Bailer	Peristaltic	
Positive Air Displacement	Extraction Pump	
(Electric Submersible)	Other_____	Other: _____

Sampling Method: Bailer
(Disposable Bailer)
Extraction Port
Dedicated Tubing
Other: _____

10.85 (Gals.) X 3 = 32.55 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1147	72.1	6.78	2564	201	11	
1148	—	Dewatered	@		20	—
1419	70.6	6.83	2666	97	—	

Did well dewater? (Yes) No Gallons actually evacuated: 20

Sampling Date: 01/02/15 Sampling Time: 1420 Depth to Water: 7.85

Sample I.D.: MW-03 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-881	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature:
Well I.D.: MW-04	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 25.10	Depth to Water: 7.29
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.85	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- (Electric Submersible)
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

17.81

11.58 (Gals.) X	3 =	34.74 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1337	71.8	7.01	1203	319	12	
1339	73.0	6.96	1165	207	24	
1341	73.5	6.91	1173	247	35	

Did well dewater? Yes (No) Gallons actually evacuated: 35

Sampling Date: 01/02/15 Sampling Time: 1350 Depth to Water: 7.33

Sample I.D.: MW-04 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-BB1	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature: 60's
Well I.D.: MW-05	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 24.47	Depth to Water: 7.24
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.68	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- (Electric Submersible)
- Waterra
- Peristaltic
- Extraction Pump 17.23
- Other ____

Sampling Method: Bailer

- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ____

11.20 (Gals.) X 3 = 33.60 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1040	72.1	6.53	2870	73	11.5	
1042	—	Dewatered			21	—
1439	70.5	6.91	2615	30 ~~68~~	—	

Did well dewater? (Yes) No Gallons actually evacuated: 21

Sampling Date: 01/02/15 Sampling Time: 1440 Depth to Water: 7.53

Sample I.D.: MW-05 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON (SO. CAL) WELL MONITORING DATA SHEET

Project #: 150102-BB1	Station #: 9-3910
Sampler: BB	Date: 1/01/02
Weather: Sunny	Ambient Air Temperature:
Well I.D.: MW-06	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.42	Depth to Water: 7.85
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.16	

Purge Method:

- Bailer
- Disposable Bailer
- Positive Air Displacement
- (Electric Submersible)
- Waterra
- Peristaltic
- Extraction Pump
- Other ___

16.57

Sampling Method: Bailer

- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: ___

16.77 (Gals.) X	3	=	32.31 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1118	71.7	6.96	4053	110	11	
1120	72.7	6.92	4113	937	22	
1121	—	Dewatered	@		27	—
1136	71.2	6.98	3882	326		

Did well dewater? (Yes) No Gallons actually evacuated: 27

Sampling Date: 01/02/15 Sampling Time: 1137 Depth to Water: 8.80

Sample I.D.: MW-06 Laboratory: Lancaster (Other) BC

Analyzed for: (TPH-G BTEX MTBE OXYS) Other: TPH-D Ethanol

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE OXYS Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L	
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV	

CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 145 S. State College Boulevard ■ Brea, CA 92822-2292 COC 1 of 1

Chevron Site Number: 93910
Chevron Site Global ID:
Chevron Site Address: 4680 Lincoln Blvd,
Marina del Rey, CA
Chevron PM: Eugene Francisco
Chevron PM Phone No.: 714-671-3347
☒ Marketing Business Unit Job
☒ Construction/Retail Job

Calscience Laboratories

7441 Lincoln Way. Garden Grove, CA 92841-1427
Consultant Project No. 150102-B81
Sampling Company: Blaine Tech Services
Sampled By (Print): Brett Bulkin
Sampler Signature:

Charge Code: NWENV-0202018-O-0802

(WBS ELEMENTS:
SITE ASSESSMENT: A1L REMEDIATION IMPLEMENTATION: R5L
SITE MONITORING: OML OPERATION MAINTENANCE & MONITORING: M1L

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Chevron Consultant: Leidos
Address: 590 W. Central Ave., Suite 1, Brea, CA 92821Consultant
Contact: MIKE PENDERGRASS
Consultant Phone No. (714)257-6415

Temp. Blank Check

Time	Temp.
0800	36°
1000	35°
1200	35°
1400	35°

ANALYSES REQUIRED

Preservation Codes: H =HCL T= Thiosulfate; N =HNO_3 B = NaOH; S = H_2SO_4 O = Other

Special Instructions: All 8260 analyses must conform to LARWQCB mandated detection lim. Numerically quantit. results detected between the MDL and PQL and F flag them.

SAMPLE ID: Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	EPA 8260B/GC/MS Ethanol ☒ EDB / EDC ☐ Full Scan VOC ☐ EPA 8260B/GC/MS BTEX ☒ MTBE ☒ Oxys ☒	EPA 8015B TPH-G ☐ TPH-D ☒ ORO ☐ HC Screen ☐	TPH-D with Silica Gel Clean Up	Acetone ☐ Formaldehyde ☐ Total Boron ☐ Chloride ☐ Total Lead ☐ Total Nickel ☐ Total Manganese ☐	Total Chromium ☐, Hexavalent Chromium ☐	Nitrate ☐, Sulfate ☐ TDS ☐ Bromide ☐	pH ☐ Dissolved Oxygen ☐ Ferrous Iron ☐ Methane ☐	Naphthalene by 8260 ☐	1,2,4 and 1,3,5 TMB 8260 ☐	EPA-8015B TPH-G ☒ MTBE ☒ Oxys ☒	EPA 8260B/GC/MS TPH-G ☒	Notes/Comments
QA	T		150102	0900	2	VOA	✓	✓									J	✓	
MW-01	W			1316	8	VOA, Amber	✓	✓										✓	
MW-02	W			1405			✓	✓										✓	
MW-03	W			1420			✓	✓										✓	
MW-04	W			1350			✓	✓										✓	
MW-05	W			1440			✓	✓										✓	
MW-06	W			1137			✓	✓										✓	

Relinquished By	Company	Date/Time:	Relinquished To	Company	Date/Time
	GTS				
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time

Turnaround Time: Standard ☒ 24 Hours ☐ 48 hours ☐ 72 Hours ☐ Other ☐

Sample Integrity: (Check by lab on arrival)

Intact: ____ On Ice: ____ Temp: ____

COC #

WELLHEAD INSPECTION CHECKLIST

Client Chevron Date 1/2/15

Site Address ~~411 Jones~~ BB Ave 4680 Lincoln Blvd, Marina Del Rey, CA

Job Number 150102-BB1 Technician BB

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12"or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12"or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-01	✓	✓	✓							
MW-02	X	✓	✓					1/2 bolt broken in threads		
MW-03	✓	✓	✓							
MW-04	✓	✓	✓							
MW-05	✓	✓	✓							
MW-06	✓	✓	✓					1/2 bolts replaced		

NOTES:

CHEVRON-NORTHERN CALIFORNIA TYPE **A** BILL OF LADING BILL OF LADING No. 111

SOURCE RECORD **BILL OF LADING** FOR PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT CHEVRON FACILITIES IN THE STATE OF CALIFORNIA. THE PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND-WATER WELLS IS COLLECTED BY THE CONTRACTOR AND HAULED TO THEIR FACILITY IN CARSON, CALIFORNIA FOR TEMPORARILY HOLDING PENDING TRANSPORT BY OTHERS TO FINAL DESTINATION.

The contractor performing this work is BLAINE TECH SERVICES, INC. (BLAINE TECH), 20735 Belshaw Ave, Carson (310) 885-4455). BLAINE TECH. is authorized by Chevron Environmental Management Company (CHEVRON EMC) to recover, collect, apportion into loads, and haul the purgewater that is drawn from wells at the CHEVRON EMC facility indicated below and to deliver that purgewater to BLAINE TECH for temporarily holding. Transport routing of the purgewater may be direct from one CHEVRON EMC facility to BLAINE TECH; from one CHEVRON EMC facility to BLAINE TECH via another CHEVRON EMC facility; or any combination thereof. The well purgewater is and remains the property of CHEVRON EMC.

This **Source Record BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the Chevron facility described below:

9-3910 — CHEVRON #

Eugene Francisco — Chevron Project Manager

4680 — street number

Lincoln Blvd — street name

Marina Del Rey — city

CA — state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-01	16		
MW-07	18		
MW-03	20		
MW-04	35		
MW-05	21		
MW-06	27		

added equip. rinse water 113.72 (BJJ)

any other adjustments /

TOTAL GALS. RECOVERED 139

loaded onto BTS vehicle # 52

BTS event # 150102-DB1 time date 01/02/15

Transporter signature

****

REC'D AT time date

Unloaded/received by signature

ATTACHMENT 7

LABORATORY ANALYSES AND CHAIN OF CUSTODY FORMS

eurofins | Calscience

WORK ORDER NUMBER: 15-01-0027

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Leidos

Client Project Name: Chevron 93910

Attention: Mike Pendergrass
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Vikas Patel

Approved for release on 01/13/2015 by:
Vikas Patel
Project Manager

ResultLink

Email your PM

eurofins | Calscience

Contents

Client Project Name: Chevron 93910
Work Order Number: 15-01-0027

eurofins | Calscience

Work Order Narrative

Work Order: 15-01-0027 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 01/02/15. They were assigned to Work Order 15-01-0027.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Return to Contents

eurofins | Calscience

Detections Summary

Client: Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Work Order: 15-01-0027
Project Name: Chevron 93910
Received: 01/02/15

Attn: Mike Pendergrass

Client SampleID / Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-01-W-150102 (15-01-0027-2)						
TPH as Diesel	72	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	11		0.50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethylbenzene	0.68	J	0.14*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Toluene	0.33	J	0.24*	ug/L	GC/MS / EPA 8260B	EPA 5030C
p/m-Xylene	3.1		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
o-Xylene	0.52	J	0.23*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Xylenes (total)	3.6	JA	1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	11		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	32		10	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethyl-t-Butyl Ether (ETBE)	50		2.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethanol	150		100	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	150		50	ug/L	GC/MS / EPA 8260B	EPA 5030C
MW-02-W-150102 (15-01-0027-3)						
TPH as Diesel	120	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	18		0.50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethylbenzene	2.9		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Toluene	0.92	J	0.24*	ug/L	GC/MS / EPA 8260B	EPA 5030C
p/m-Xylene	5.6		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
o-Xylene	0.95	J	0.23*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Xylenes (total)	6.5	JA	1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	6.0		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	12		10	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethyl-t-Butyl Ether (ETBE)	13		2.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethanol	56	J	50*	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	230		50	ug/L	GC/MS / EPA 8260B	EPA 5030C
MW-03-W-150102 (15-01-0027-4)						
TPH as Diesel	67	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	0.99		0.50	ug/L	GC/MS / EPA 8260B	EPA 5030C
p/m-Xylene	1.9		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
o-Xylene	0.27	J	0.23*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Xylenes (total)	2.2	JA	1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	17		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	450		10	ug/L	GC/MS / EPA 8260B	EPA 5030C
Diisopropyl Ether (DIPE)	0.54	J	0.33*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethyl-t-Butyl Ether (ETBE)	150		2.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Amyl-Methyl Ether (TAME)	0.29	J	0.22*	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	150		50	ug/L	GC/MS / EPA 8260B	EPA 5030C

* MDL is shown

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Detections Summary

Client:	Leidos	Work Order:	15-01-0027
	590 West Central Avenue, Suite I	Project Name:	Chevron 93910
	Brea, CA 92821-3019	Received:	01/02/15
Attn:	Mike Pendergrass		

Client SampleID

Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MW-04-W-150102 (15-01-0027-5)						
TPH as Diesel	5200	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	58		2.5	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethylbenzene	28		5.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Toluene	3.3	J	1.2*	ug/L	GC/MS / EPA 8260B	EPA 5030C
p/m-Xylene	4.6	J	1.2*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Xylenes (total)	4.6	JA	5.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	11		5.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	120		50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethyl-t-Butyl Ether (ETBE)	5.2	J	2.2*	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	11000		250	ug/L	GC/MS / EPA 8260B	EPA 5030C
MW-05-W-150102 (15-01-0027-6)						
TPH as Diesel	80	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	4.8		0.50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethylbenzene	0.51	J	0.14*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Toluene	0.30	J	0.24*	ug/L	GC/MS / EPA 8260B	EPA 5030C
p/m-Xylene	0.45	J	0.24*	ug/L	GC/MS / EPA 8260B	EPA 5030C
Xylenes (total)	0.45	JA	1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	8.1		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	7.5	J	4.6*	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	61		50	ug/L	GC/MS / EPA 8260B	EPA 5030C
MW-06-W-150102 (15-01-0027-7)						
TPH as Diesel	52	HD	50	ug/L	EPA 8015B (M)	EPA 3510C
Benzene	0.99		0.50	ug/L	GC/MS / EPA 8260B	EPA 5030C
Ethylbenzene	1.1		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Methyl-t-Butyl Ether (MTBE)	4.2		1.0	ug/L	GC/MS / EPA 8260B	EPA 5030C
Tert-Butyl Alcohol (TBA)	42		10	ug/L	GC/MS / EPA 8260B	EPA 5030C
TPPH	45	J	31*	ug/L	GC/MS / EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-01-W-150102	**15-01-0027-2-G**	**01/02/15 13:16**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 17:14**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	72	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-02-W-150102	**15-01-0027-3-G**	**01/02/15 14:05**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 17:32**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	120	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	94	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-03-W-150102	**15-01-0027-4-G**	**01/02/15 14:20**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 17:49**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	67	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	92	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-04-W-150102	**15-01-0027-5-G**	**01/02/15 13:50**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 18:06**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	5200	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-05-W-150102	**15-01-0027-6-G**	**01/02/15 14:40**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 18:23**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	80	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	86	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-06-W-150102	**15-01-0027-7-G**	**01/02/15 11:37**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 18:40**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	52	50	11	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	72	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-304-915**	**N/A**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 16:23**	**150105B06**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
TPH as Diesel	ND	50	11	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	105	68-140	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Chevron 93910

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-01-W-150102	**15-01-0027-2-A**	**01/02/15 13:16**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 10:28**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	11	0.50	0.14	1.00	
Ethylbenzene	0.68	1.0	0.14	1.00	J
Toluene	0.33	1.0	0.24	1.00	J
p/m-Xylene	3.1	1.0	0.24	1.00	
o-Xylene	0.52	1.0	0.23	1.00	J
Xylenes (total)	3.6	1.0	0.23	1.00	JA
Methyl-t-Butyl Ether (MTBE)	11	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	32	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	50	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	150	100	50	1.00	
TPPH	150	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	92	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	92	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-02-W-150102	**15-01-0027-3-A**	**01/02/15 14:05**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 10:55**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	18	0.50	0.14	1.00	
Ethylbenzene	2.9	1.0	0.14	1.00	
Toluene	0.92	1.0	0.24	1.00	J
p/m-Xylene	5.6	1.0	0.24	1.00	
o-Xylene	0.95	1.0	0.23	1.00	J
Xylenes (total)	6.5	1.0	0.23	1.00	JA
Methyl-t-Butyl Ether (MTBE)	6.0	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	12	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	13	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	56	100	50	1.00	J
TPPH	230	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	96	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	92	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Chevron 93910

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-03-W-150102	**15-01-0027-4-B**	**01/02/15 14:20**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 20:18**	**150108L038**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	0.99	0.50	0.14	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	1.9	1.0	0.24	1.00	
o-Xylene	0.27	1.0	0.23	1.00	J
Xylenes (total)	2.2	1.0	0.23	1.00	JA
Methyl-t-Butyl Ether (MTBE)	17	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	450	10	4.6	1.00	
Diisopropyl Ether (DIPE)	0.54	2.0	0.33	1.00	J
Ethyl-t-Butyl Ether (ETBE)	150	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	0.29	2.0	0.22	1.00	J
Ethanol	ND	100	50	1.00	
TPPH	150	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	93	88-112	
1,4-Bromofluorobenzene	90	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Chevron 93910

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-04-W-150102	**15-01-0027-5-A**	**01/02/15 13:50**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 11:50**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	58	2.5	0.71	5.00	
Ethylbenzene	28	5.0	0.69	5.00	
Toluene	3.3	5.0	1.2	5.00	J
p/m-Xylene	4.6	5.0	1.2	5.00	J
o-Xylene	ND	5.0	1.1	5.00	
Xylenes (total)	4.6	5.0	1.1	1.00	JA
Methyl-t-Butyl Ether (MTBE)	11	5.0	1.5	5.00	
Tert-Butyl Alcohol (TBA)	120	50	23	5.00	
Diisopropyl Ether (DIPE)	ND	10	1.7	5.00	
Ethyl-t-Butyl Ether (ETBE)	5.2	10	2.2	5.00	J
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.1	5.00	
Ethanol	ND	500	250	5.00	
TPPH	11000	250	150	5.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	93	75-135	
Toluene-d8	101	80-120	
Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	94	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Chevron 93910

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-05-W-150102	**15-01-0027-6-A**	**01/02/15 14:40**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 20:45**	**150108L038**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	4.8	0.50	0.14	1.00	
Ethylbenzene	0.51	1.0	0.14	1.00	J
Toluene	0.30	1.0	0.24	1.00	J
p/m-Xylene	0.45	1.0	0.24	1.00	J
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	0.45	1.0	0.23	1.00	JA
Methyl-t-Butyl Ether (MTBE)	8.1	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	7.5	10	4.6	1.00	J
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
TPPH	61	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	113	75-135	
Toluene-d8	97	80-120	
Toluene-d8-TPPH	93	88-112	
1,4-Bromofluorobenzene	88	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos		Date Received:	01/02/15
590 West Central Avenue, Suite I		Work Order:	15-01-0027
Brea, CA 92821-3019		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
		Units:	ug/L
Project: Chevron 93910			Page 6 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-06-W-150102	**15-01-0027-7-A**	**01/02/15 11:37**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 21:12**	**150108L038**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	0.99	0.50	0.14	1.00	
Ethylbenzene	1.1	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	4.2	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	42	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
TPPH	45	50	31	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	119	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	94	88-112	
1,4-Bromofluorobenzene	91	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos		Date Received:	01/02/15
590 West Central Avenue, Suite I		Work Order:	15-01-0027
Brea, CA 92821-3019		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
		Units:	ug/L
Project: Chevron 93910			Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-246-1918**	**N/A**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 04:32**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
TPPH	ND	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	86	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-246-1919**	**N/A**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 14:42**	**150108L038**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
Ethanol	ND	100	50	1.00	
TPPH	ND	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	108	75-135	
Toluene-d8	96	80-120	
Toluene-d8-TPPH	92	88-112	
1,4-Bromofluorobenzene	92	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QA-T-150102	**15-01-0027-1-A**	**01/02/15 09:00**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 05:00**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
TPPH	ND	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	98	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	86	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Units: ug/L

Project: Chevron 93910

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-246-1918**	**N/A**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 04:32**	**150107L041**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Toluene	ND	1.0	0.24	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Xylenes (total)	ND	1.0	0.23	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.31	1.00	
Tert-Butyl Alcohol (TBA)	ND	10	4.6	1.00	
Diisopropyl Ether (DIPE)	ND	2.0	0.33	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.44	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	0.22	1.00	
TPPH	ND	50	31	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	98	80-120	
Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	86	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0343-1	**Sample**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 16:13**	**150108S011**
15-01-0343-1	**Matrix Spike**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 17:09**	**150108S011**
15-01-0343-1	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 17:36**	**150108S011**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	54.42	109	51.10	102	74-122	6	0-21	
Ethylbenzene	1.541	50.00	56.53	110	52.31	102	77-125	8	0-24	
Toluene	2.406	50.00	57.11	109	52.89	101	72-126	8	0-23	
p/m-Xylene	7.163	100.0	122.2	115	111.1	104	63-129	10	0-25	
o-Xylene	3.673	50.00	63.28	119	57.55	108	62-128	9	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	49.25	99	48.97	98	68-134	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	266.1	106	245.9	98	65-143	8	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	55.18	110	49.23	98	61-139	11	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	51.31	103	46.79	94	64-136	9	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.73	105	48.45	97	67-133	8	0-20	
Ethanol	ND	500.0	568.1	114	516.1	103	34-178	10	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Leidos		Date Received:	01/02/15
590 West Central Avenue, Suite I		Work Order:	15-01-0027
Brea, CA 92821-3019		Preparation:	EPA 5030C
		Method:	GC/MS / EPA 8260B
Project: Chevron 93910			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-12-2492-5	**Sample**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 05:27**	**150107S028**
14-12-2492-5	**Matrix Spike**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 05:54**	**150107S028**
14-12-2492-5	**Matrix Spike Duplicate**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 06:22**	**150107S028**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	59.49	50.00	105.3	92	106.0	93	74-122	1	0-21	
Ethylbenzene	193.5	50.00	233.1	79	228.5	70	77-125	2	0-24	3
Toluene	6.818	50.00	58.18	103	56.50	99	72-126	3	0-23	
p/m-Xylene	7.415	100.0	118.4	111	114.6	107	63-129	3	0-25	
o-Xylene	ND	50.00	54.88	110	53.62	107	62-128	2	0-24	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	44.96	90	47.80	96	68-134	6	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	187.0	75	202.5	81	65-143	8	0-30	
Diisopropyl Ether (DIPE)	ND	50.00	42.31	85	44.57	89	61-139	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	48.67	97	52.42	105	64-136	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	52.21	104	54.19	108	67-133	4	0-20	
Ethanol	ND	500.0	333.1	67	397.0	79	34-178	18	0-58	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 3510C
Method: EPA 8015B (M)
Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-304-915	**LCS**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 16:40**	**150105B06**
099-15-304-915	**LCSD**	**Aqueous**	**GC 47**	**01/05/15**	**01/06/15 16:57**	**150105B06**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	2209	110	2166	108	75-117	2	0-13	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leidos
590 West Central Avenue, Suite I
Brea, CA 92821-3019

Project: Chevron 93910

Date Received: 01/02/15
Work Order: 15-01-0027
Preparation: EPA 5030C
Method: GC/MS / EPA 8260B
Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-246-1919	**LCS**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 13:48**	**150108L038**
099-14-246-1919	**LCSD**	**Aqueous**	**GC/MS R**	**01/08/15**	**01/08/15 14:15**	**150108L038**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	44.06	88	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	45.90	92	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	44.53	89	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	95.33	95	N/A	N/A	75-123	67-131	N/A	0-20	
o-Xylene	50.00	48.71	97	N/A	N/A	74-122	66-130	N/A	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	41.10	82	N/A	N/A	69-129	59-139	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	217.5	87	N/A	N/A	69-129	59-139	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	44.86	90	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	40.91	82	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	42.94	86	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	466.8	93	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	819.0	82	798.2	80	65-135	53-147	3	0-30	

Total number of LCS compounds: 12
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Leidos	Date Received: 01/02/15
590 West Central Avenue, Suite I	Work Order: 15-01-0027
Brea, CA 92821-3019	Preparation: EPA 5030C
	Method: GC/MS / EPA 8260B
Project: Chevron 93910	Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-246-1918	**LCS**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 03:10**	**150107L041**
099-14-246-1918	**LCSD**	**Aqueous**	**GC/MS T**	**01/07/15**	**01/08/15 03:37**	**150107L041**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	49.12	98	N/A	N/A	80-120	73-127	N/A	0-20	
Ethylbenzene	50.00	54.87	110	N/A	N/A	80-123	73-130	N/A	0-20	
Toluene	50.00	52.50	105	N/A	N/A	80-120	73-127	N/A	0-20	
p/m-Xylene	100.0	112.2	112	N/A	N/A	75-123	67-131	N/A	0-20	
o-Xylene	50.00	55.83	112	N/A	N/A	74-122	66-130	N/A	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	43.79	88	N/A	N/A	69-129	59-139	N/A	0-20	
Tert-Butyl Alcohol (TBA)	250.0	246.4	99	N/A	N/A	69-129	59-139	N/A	0-20	
Diisopropyl Ether (DIPE)	50.00	41.00	82	N/A	N/A	68-128	58-138	N/A	0-20	
Ethyl-t-Butyl Ether (ETBE)	50.00	44.61	89	N/A	N/A	63-135	51-147	N/A	0-20	
Tert-Amyl-Methyl Ether (TAME)	50.00	49.53	99	N/A	N/A	67-133	56-144	N/A	0-20	
Ethanol	500.0	455.5	91	N/A	N/A	42-168	21-189	N/A	0-20	
TPPH	1000	974.2	97	961.2	96	65-135	53-147	1	0-30	

Total number of LCS compounds: 12
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 15-01-0027 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 8015B (M)	EPA 3510C	500	GC 47	1
GC/MS / EPA 8260B	EPA 5030C	626	GC/MS R	2
GC/MS / EPA 8260B	EPA 5030C	867	GC/MS T	2

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Glossary of Terms and Qualifiers

Work Order: 15-01-0027 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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CHAIN OF CUSTODY FORM

Chevron Environmental Management Company ■ 145 S. State College Boulevard ■ Brea, CA 92822-2292 COC 1 of 1

Chevron Site Number: 93910

Chevron Site Global ID:

Chevron Site Address: 4680 Lincoln Blvd., Marina del Rey, CA

Chevron PM: Eugene Francisco

Chevron PM Phone No.: 714-671-3347

☒ Marketing Business Unit Job
☒ Construction/Retail Job

Calscience Laboratories

7441 Lincoln Way. Garden Grove, CA 92841-1427

Consultant Project No. 150102-BB1

Sampling Company: Blaine Tech Services

Sampled By (Print): Brett Balkin

Sampler Signature: [signature]

15-01-0027

Charge Code: NWENV-0202018-O-0802

(WBS ELEMENTS:
SITE ASSESSMENT: **A1L** REMEDIATION IMPLEMENTATION: **R5L**
SITE MONITORING: **OML** OPERATION MAINTENANCE & MONITORING: **M1L**

THIS IS A LEGAL DOCUMENT. ALL FIELDS MUST BE FILLED OUT CORRECTLY AND COMPLETELY.

Chevron Consultant: Leidos

Address: 590 W. Central Ave., Suite 1, Brea, CA 92821

Consultant Contact: MIKE PENDERGRASS

Consultant Phone No. (714)257-6415

Temp. Blank Check Time	Temp.
0800	36°
1000	35°
1200	35°
1400	35°

Preservation Codes

H = HCL T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 O = Other

Special Instructions

All 8260 analyses must conform to LARWQCB mandated detection lim. Numerically quantify results detected between the MDL and PQL and "j" flag them.

ANALYSES REQUIRED

Analysis columns:
- A: EPA 8260B/GC/MS Full Scan VOC ☐ / EPA 8260B/GC/MS BTEX ☒ MTBE ☒ Oxys ☒ EDB / EDC ☐ Ethanol ☒
- B: EPA 8015B TPH-G ☐ TPH-D ☒ ORO ☐ HC Screen ☐
- C: TPH-D with Silica Gel Clean Up
- D: Acetone ☐ Formaldehyde ☐ Total Boron ☐ Chloride ☐ / Total Lead ☐ Total Nickel ☐ Total Manganese ☐
- E: Total Chromium ☐, Hexavalent Chromium ☐
- F: Nitrate ☐, Sulfate ☐ TDS ☐ Bromide ☐
- G: pH ☐ Dissolved Oxygen ☐ Ferrous Iron ☐ Methane ☐
- H: Naphthalene by 8260 ☐
- I: 1,2,4 and 1,3,5 TMB 8260 ☐
- J: ~~EPA 8015B TPH-G~~ ☐ btex ☒ MTBE ☒ oxys ☒
- K: EPA 8260B/GC/MS TPH-G ☒

	Field Point Name	Matrix	Top Depth	Date (yymmdd)	Sample Time	# of Containers	Container Type	A	B	C	D	E	F	G	H	I	J	K	Notes/Comments
1	QA	T		150102	0900	2	VOA	~~✓~~	~~✓~~								✓	✓	
2	MW-01	W		↓	1316	8	VOA, Amber	✓	✓									✓	
3	MW-02	W		↓	1405	↓	↓	✓	✓									✓	
4	MW-03	W		↓	1420	↓	↓	✓	✓									✓	
5	MW-04	W		↓	1350	↓	↓	✓	✓									✓	
6	MW-05	W		↓	1440	↓	↓	✓	✓									✓	
7	MW-06	W		↓	1137	↓	↓	✓	✓									✓	

Relinquished By	Company	Date/Time	Relinquished To	Company	Date/Time
[signature]	BTS	1/2/15 1605	Nicole	BTS	1/2/15 1605
Nicole	BTS	1/2/15 1700	[signature]	BTS	1/2/15 1700
[signature]	BTS	1/2/15 1720	Dannagle	CEL	1/2/15 17:20

Turnaround Time: Standard ☒ 24 Hours ☐ 48 hours ☐ 72 Hours ☐ Other ☐

Sample Integrity: (Check by lab on arrival)

Intact: ____ On Ice: ____ Temp: ____

COC #

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WORK ORDER #: 15-01-0027

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Leidos

DATE: 01/02/15

TEMPERATURE: Thermometer ID: SC4 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 3.4 °C + 0.2 °C (CF) = 3.6 °C ☒ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Checked by: 657

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: 657

☐ Sample ☐_____ ☐ No (Not Intact) ☒ Not Present Checked by: 965

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☒	☐	☐
COC document(s) received complete	☒	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☒	☐	☐
Sample container label(s) consistent with COC	☒	☐	☐
Sample container(s) intact and good condition	☒	☐	☐
Proper containers and sufficient volume for analyses requested	☒	☐	☐
Analyses received within holding time	☒	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☒
Proper preservation noted on COC or sample container	☒	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☒	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☒

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☒VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☒1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister **Other:** ☐_____ **Trip Blank Lot#:** 140718A **Labeled/Checked by:** 965

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** 657

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** 657

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