

Ground Water Monitoring Report
April 2019

Leonard's Conoco
603 Parker Avenue
Santa Rosa, New Mexico 88435
Facility # 29084 Release ID #: 755

Job No. 3288JV031



**Western
Technologies
Inc.**

The Quality People
Since 1955

ALBUQUERQUE – NEW MEXICO

8305 Washington Place N.E.
Albuquerque, New Mexico 87113-1670
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Prepared For:

New Mexico Environment Department
Petroleum Storage Tank Bureau
District 2 Office
2905 Rodeo Park Drive East, Bldg. 1
Santa Fe, New Mexico 87505

May 15, 2019

David C. Wagner, P.G.
Senior Environmental Scientist

Sean Moggridge
Project Environmental Scientist



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Albuquerque, New Mexico 87113-1670
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May 15, 2019

New Mexico Environment Department
Petroleum Storage Tank Bureau
District 2 Office
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505

Attn: Tim Noger

**Re: Ground Water Monitoring Report (April 2019)
Leonard's Conoco
603 Parker Avenue
Santa Rosa, New Mexico 88435**

Job No. 3288JV031

Facility #: 29084

Release ID #: 755

WPID #: 4024-1

Western Technologies (WT) is pleased to present this Ground Water Monitoring Report for the referenced State Lead site. The original tasks were detailed in a WT workplan dated August 12, 2018. The NMED PSTB approval letter was dated March 22, 2019.

Should you have any questions or comments, please call.

Sincerely,
WESTERN TECHNOLOGIES INC.
Senior Environmental Services

A handwritten signature in black ink that reads "David C. Wagner". The signature is written in a cursive, flowing style.

David C. Wagner, P. G.
Environmental Scientist

Copies to: Addressee (1)

Ground Water Monitoring (April 2019)
Leonard's Conoco, 603 Parker Avenue, Santa Rosa, New Mexico 88435
Facility # 29084 Release ID #: 755
Job No. 3288JV031

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MW-1A Boring Log, October 25, 2013**



**COVER PAGE
FORM 1216
GROUND WATER MONITORING**

Please include the following information:

1. **Site name:** Leonard's Conoco
2. **Responsible party:** State Lead Site
3. **Responsible party mailing address** (list contact person if different):
 Petroleum Storage Tank Bureau
 2905 Rodeo Park Drive East
 Building 1
 Santa Fe, NM 85405
4. **Facility number:** 29084
5. **Address/legal description:**
 603 Parker Avenue, Santa Rosa, New Mexico 88435
6. **Author/consulting company:** David C. Wagner/Western Technologies Inc.
7. **Date of report:** May 15, 2019
8. **Date of confirmation of release or date PSTB was notified of the release:** June 1991

STATEMENT OF FAMILIARITY

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

Signature: David C. Wagner

Name: David C. Wagner, P.G.

Affiliation: Western Technologies Inc.

Title: Environmental Scientist

Certified Scientist #: Not Applicable

Date: May 15, 2019



I. INTRODUCTION:

A. Scope of work: WPID #: 4024-1

The following tasks were detailed in a Western Technologies (WT) workplan dated August 12, 2018. The NMED PSTB approval letter was dated March 22, 2019. Western Technologies (WT) collected ground water samples from all ground water monitor wells (MW-1A, MW-2A, and MW-3) specified in the workplan during this monitoring event. This report completes the scope of work for WPID #: 4024-1.

Figures are presented in Appendix A. Tables are presented in Appendix B. The laboratory analytical report is presented in Appendix C. Appendix D presents relevant charts. The Consent for Access Agreement, Field Notes, a Photographic Log, and selected historical data are presented in Appendix E.

WT began ground water monitoring at the Site in April 2019. The location of the Leonard's Conoco (Site) is illustrated on Figure 1, Site Location Map. The Site is currently occupied by Santa Rosa Magistrate Court with the address of:

Santa Rosa Magistrate Court
1633 Route 66 Santa Rosa, NM 88435
Telephone: (575) 472-3237

Note that Google Maps and Google Earth also indicated the site has an address of 1633 Route 66 Santa Rosa, NM 88435. The 603 Parker Avenue address on NMED PSTB correspondence and was located approximately 500 feet to the east on both Google Maps and Google Earth.

The site was along the north side of the westbound I-40 Business Loop. Adjacent to the north was the Union Pacific Railroad Company Automobile Distribution Center. Adjacent to the east was the Mi Casa Laundromat, which was formerly a gas station. A vacant graveled lot was adjacent to the west.

History

Daniel B. Stephens & Associates, Inc. (DBS&A) performed ground water from June 2016 through December 2017. The previous DBS&A monitoring report was dated March 12, 2018¹ (2018 DBS&A Report) and summarized the history of the Site.

"A confirmed petroleum release was documented during the removal of three 4,000-gallon underground storage tanks (USTs) and one 560-gallon waste oil UST in June 1991. Monteverde, Inc. performed a minimum site assessment (MSA) in 1995, during

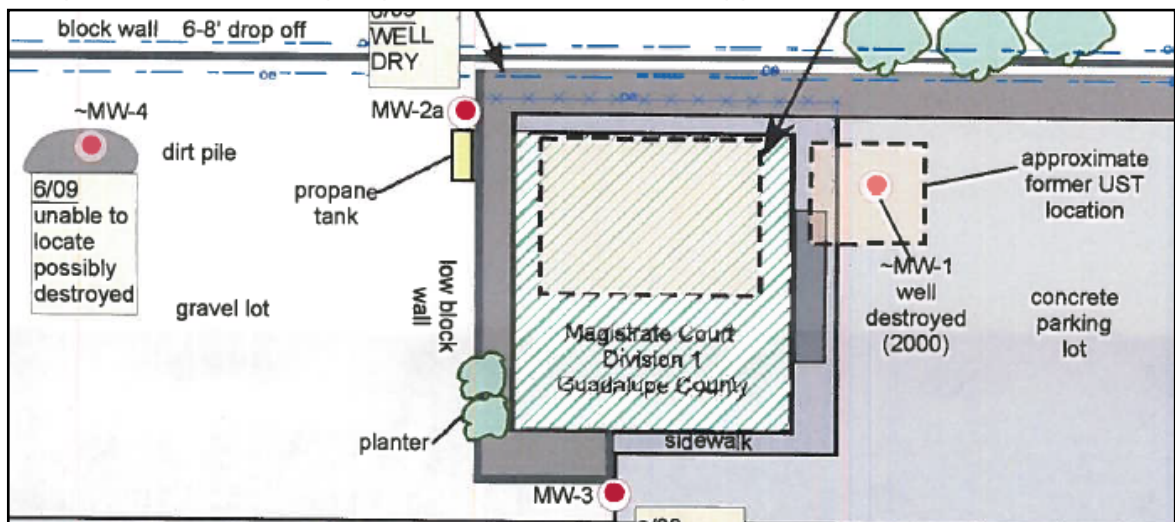
¹ Annual Groundwater Monitoring and MW-3 Well Surface Completion Replacement Report Leonard's Conoco, 603 Parker Avenue, Santa Rosa, New Mexico Facility #29084, Release ID #755, WPID #3929 Avenue, Santa Rosa, New Mexico Facility #29084, Release ID #755, WPID #3929, Daniel B. Stephens & Associates, Inc., March 12, 2018.



which four monitor wells (MW-1, MW-2, MW-3, and MW-4) were installed. Innovative Explorations (INEX) performed groundwater monitoring at the site from 1997 through 2001. In 2000, the former Leonard's Conoco building was demolished and the current building was constructed. Monitor well MW-2 was destroyed during construction, and a replacement well, MW-2A, was installed by INEX."

"In June 2009, Tecumseh Professional Associates, Inc. (TPA) performed a groundwater monitoring event at the site. TPA located monitor wells MW-2A and MW-3, but could not locate monitor wells MW-1 and MW-4. Of the two wells located, only MW-3 was sampled because well MW-2A was dry."

The June 2009, TPA map below indicates the footprint of the former Leonard's Conoco Building and the former UST location. We believe that MW-3 is in the vicinity of a former dispenser island. Note the "6-8' drop off" north of the block wall. The complete 2009 TPA map is presented at the end of Appendix A.



According to the 2018 DBS&A Report, "In October 2013, Haller & Associates, Inc. (HAI) performed groundwater monitoring at the site. HAI located monitor well MW-1, but was unsuccessful in locating MW-4 with a metal detector. HAI indicated that monitor well MW-4 appeared to have been destroyed."

"In March 2014, HAI plugged and abandoned monitor well MW-1 and performed groundwater monitoring at the site. Monitor wells MW-1A, MW-2A, and MW-3 were located and gauged." The MW-1A boring log is presented in Appendix E.

DBSA completed well surface completion replacement for MW-3 and conducted groundwater monitoring at the site in December 2017. The three existing monitor wells: MW-1A, MW-2A, and MW-3, were also resurveyed on January 18, 2018, by Surveying Control, Inc. The survey report is presented in Appendix E.



B. Monitoring Event Highlights:

WT obtained a Consent for Access Agreement from the Site Owner (See Appendix E). WT photographed each of the existing monitor wells at the Site. The Photographic Log is presented in Appendix E. All Site well vaults, PVC casing, and well caps were in good condition.

This report used the recently adopted New Mexico Water Quality Control Commission (NMWQCC) regulatory limits as described in NMAC 20.6.2.3103 (A) dated December 2018. The regulatory limit for benzene decreased from 10 $\mu\text{g/L}$ to 5.0 $\mu\text{g/L}$. The regulatory limit for toluene increased from 750 $\mu\text{g/L}$ to 1,000 $\mu\text{g/L}$. The regulatory limit for ethylbenzene decreased from 750 $\mu\text{g/L}$ to 700 $\mu\text{g/L}$. The regulatory limit for 1, 2-dibromoethane (EDB) decreased from 0.01 $\mu\text{g/L}$ to 0.005 $\mu\text{g/L}$.

Benzene concentrations in MW-1A exceeded the regulatory limit of 5.0 $\mu\text{g/L}$. Total naphthalene concentrations in MW-1A exceeded the regulatory limit of 30 $\mu\text{g/L}$. All other EPA Method 8260B list compounds were below applicable NMWQCC regulatory limits in MW-1A. No EPA Method 8260B list compounds were detected in MW-2A or MW-3.

II. ACTIVITIES PERFORMED DURING THIS MONITORING EVENT:**A. Brief description of remediation system and date installed.**

No operating remediation system was present at the site.

B. Description of activities performed to keep system operating properly including: inspections, maintenance procedures and modifications, if any.

Not applicable.

C. Monitoring activities performed.

WT collected ground water samples from monitor wells MW-1A, MW-2A, and MW-3 during this monitoring event (see Figure 2, Site Plan and Ground Water Contour Map). Current and historical data is presented in Table 1, Ground Water Elevation Data. Figure 2 includes significant site features including the location of the three former USTs removed in 1993.

Before collecting ground water samples from the monitor wells, the water levels in the monitor wells were measured with a Heron™ interface probe (IP). The IP was also used to measure free product, if any. The IP was decontaminated with an Alconox solution,



then rinsed with tap water, and finally rinsed with deionized water before and after each water level measurement.

A minimum of three well volumes were removed from each well before collecting a ground water sample (see Table 2, Ground Water Field Data). The well purging was conducted with a new 1.66-inch diameter disposable bailer for each well.

During purging activities, ground water parameters of temperature, dissolved oxygen, pH, Oxidation-Reduction Potential (ORP/eH), and specific conductivity were measured and recorded using a YSI Professional Plus™ multiparameter water quality probe. Measurements were digitally recorded as specific volumes of ground water removed from each well as indicated on Table 2. Before and after obtaining ground water parameters from each well, the multiparameter water quality probe was decontaminated with an Alconox solution, then rinsed with tap water, and finally rinsed with deionized water.

All of the ground water samples collected were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. Ground water samples for laboratory analysis by EPA Method 8260B were placed immediately in laboratory supplied, 40-milliliter volatile organic analysis vials with Teflon® septums, with mercuric chloride preservative, sealed, labeled, and placed in a cooler with ice. Each ground water sample container label mirrored the information on the COC. All laboratory samples were analyzed by Hall Environmental Analysis Laboratory, Inc. in Albuquerque, New Mexico (See Appendix C).

Ground Water Data

The depths to ground water ranged from 13.16 feet below top of casing (MW-2A) to 14.80 feet below top of casing (MW-1A) during this monitoring event (see Table 1, Ground Water Elevation Data). Ground water elevations ranged from 4600.37 feet (MW-2A) to 4601.41 feet (MW-3). The average ground water elevations decreased 0.23 feet since the previous ground water monitoring event of December 2017. The 0.013 ft/ft ground water gradient observed during this ground water monitoring event was generally to the northwest (see Figure 2, Site Plan and Ground Water Contour Map).

Laboratory Analytical Results

Based on the results of the EPA Method 8260B laboratory analysis, the results from MW-2A and MW-3 were below all applicable Practical Quantitation Limits (PQL). The total BTEX concentration in MW-1A was 390 ($\mu\text{g}/\text{L}$) during this monitoring event (see Table 3, Summary of Water Sample Analytical Test Results).

Benzene concentrations in MW-1A exceeded the NMWQCC regulatory limit of 5.0 $\mu\text{g}/\text{L}$. The total naphthalenes concentrations in MW-1A exceeded the NMWQCC



regulatory limit of 30 $\mu\text{g/L}$. Benzene and total naphthalenes contours are presented on Figure 3, Dissolved Petroleum Hydrocarbon Concentration Map. Other EPA Method 8260B compounds were detected but were all below applicable NMWQCC regulatory limits (see Table 4, Current Water Sample Analytical Test Results: Volatile Organic Analysis by EPA Method 8260B).

Chart for MW-1A

WT prepared a Chart for contaminants of concern in MW-1A above NMWQCC regulatory limits (See Appendix D). The X-axis is linear time. The contaminant of concern values ($\mu\text{g/L}$) are plotted against the left-hand logarithmic Y-axis. Linear ground water elevations are plotted against the right-hand Y-axis.

Chart 1, MW-1A Benzene and Naphthalene Concentrations (logarithmic) versus Ground Water Elevations: January 1995 to Date, illustrates benzene and naphthalene concentrations over time. Analyses for total naphthalenes began in 2013. Benzene and total naphthalenes contaminant levels appeared to have an inverse relationship with each other since 2013. There was no obvious relation between ground water elevation and either benzene or total naphthalenes concentrations.

D. System performance and effectiveness

Not applicable.

E. Statement verifying containment of release.

The Leonard's Conoco contamination plume was only defined to the southwest and south. The contamination plume was undefined in all other directions.

III. SUMMARY AND CONCLUSIONS:

A. Discussion of any trends or changes noted in analytical results or site conditions.

Benzene concentrations in MW-1A exceeded the NMWQCC regulatory limit of 5.0 $\mu\text{g/L}$. The total naphthalenes concentrations in MW-1A exceeded the NMWQCC regulatory limit of 30 $\mu\text{g/L}$. Other EPA Method 8260B compounds were detected but were all below applicable NMWQCC regulatory limits

B. Ongoing assessment of remediation system.

Not applicable.



C. Recommendations.

WT recommends the following:

- Annual or semi-annual ground water monitoring.
- A Continued Minimum Site Assessment including the installation of three monitor wells as indicated on Figure 3. The most important proposed monitor well, MW A is downgradient of the former USTs. However, MW A is offsite on Union Pacific Railroad land, which may preclude access.
- EPA Method 504.1 ground water analysis because available historical data indicates that no ground water samples were ever analyzed for EDB.
- EPA Method 6010C ground water analysis because available historical data indicates that no ground water samples were ever analyzed for the dissolved metals: lead, manganese, and iron.



APPENDIX A

Figures





Adapted from Google Earth Aerial Photograph: October 9, 2017

Santa Rosa USGS 7.5 Minute Quadrangle
 Section 2, Township 8 North, Range 21 East



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435
 NMED PSTB Facility # 29084: Release ID # 755

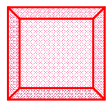
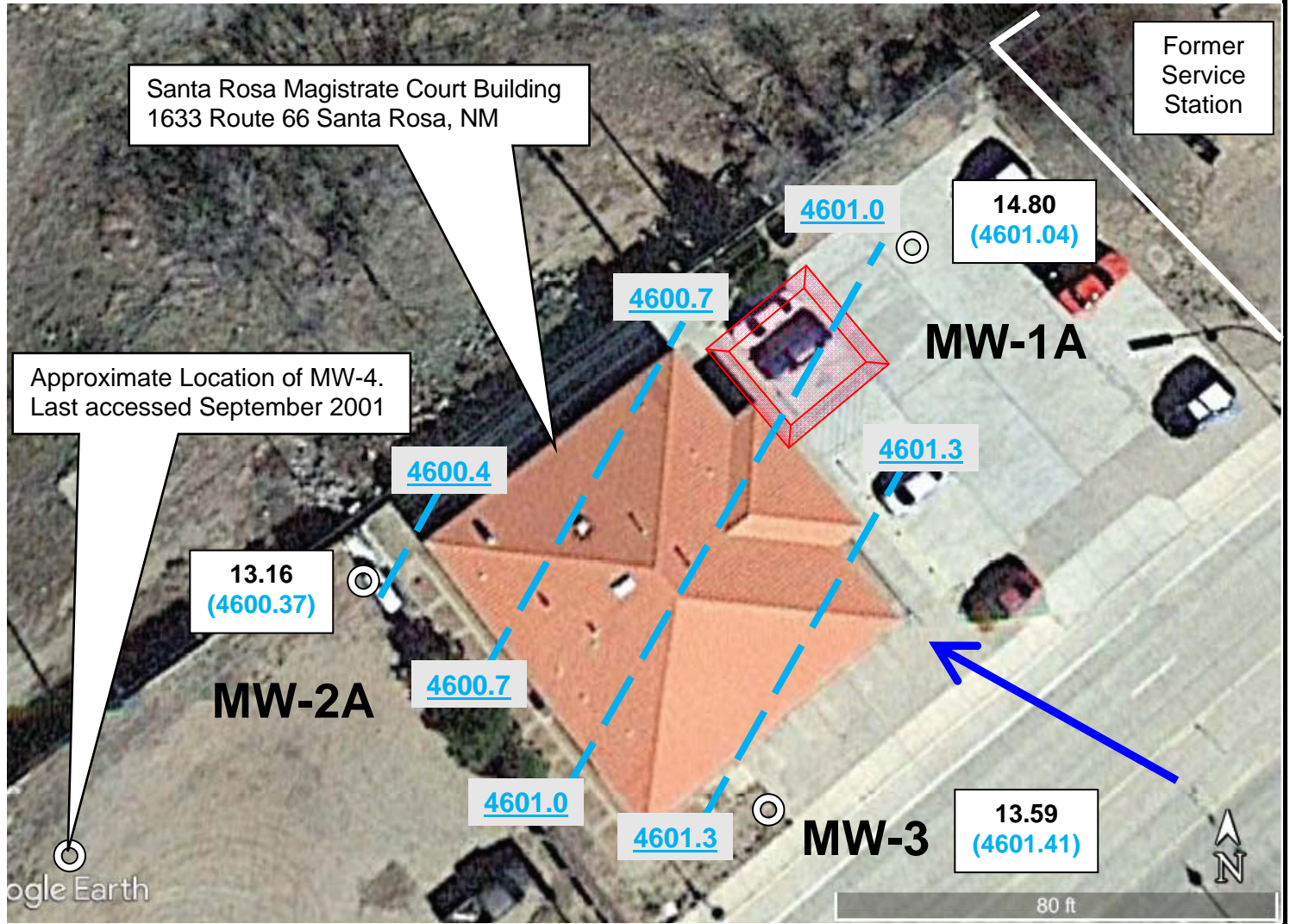
Site Location Map

WESTERN TECHNOLOGIES INC.

Job No.: 3288JV032

Figure 1





Former USTs: Location is Approximate



Monitor Wells: Locations are Approximate

14.80
(4601.04)

Depth to Ground Water (Black)

Ground water Elevation (Blue)

4600.1 = Contour

Gradient = 0.013 ft/ft

0 30 60 1 Inch = 30 Feet



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435
NMED PSTB Facility # 29084: Release ID # 755

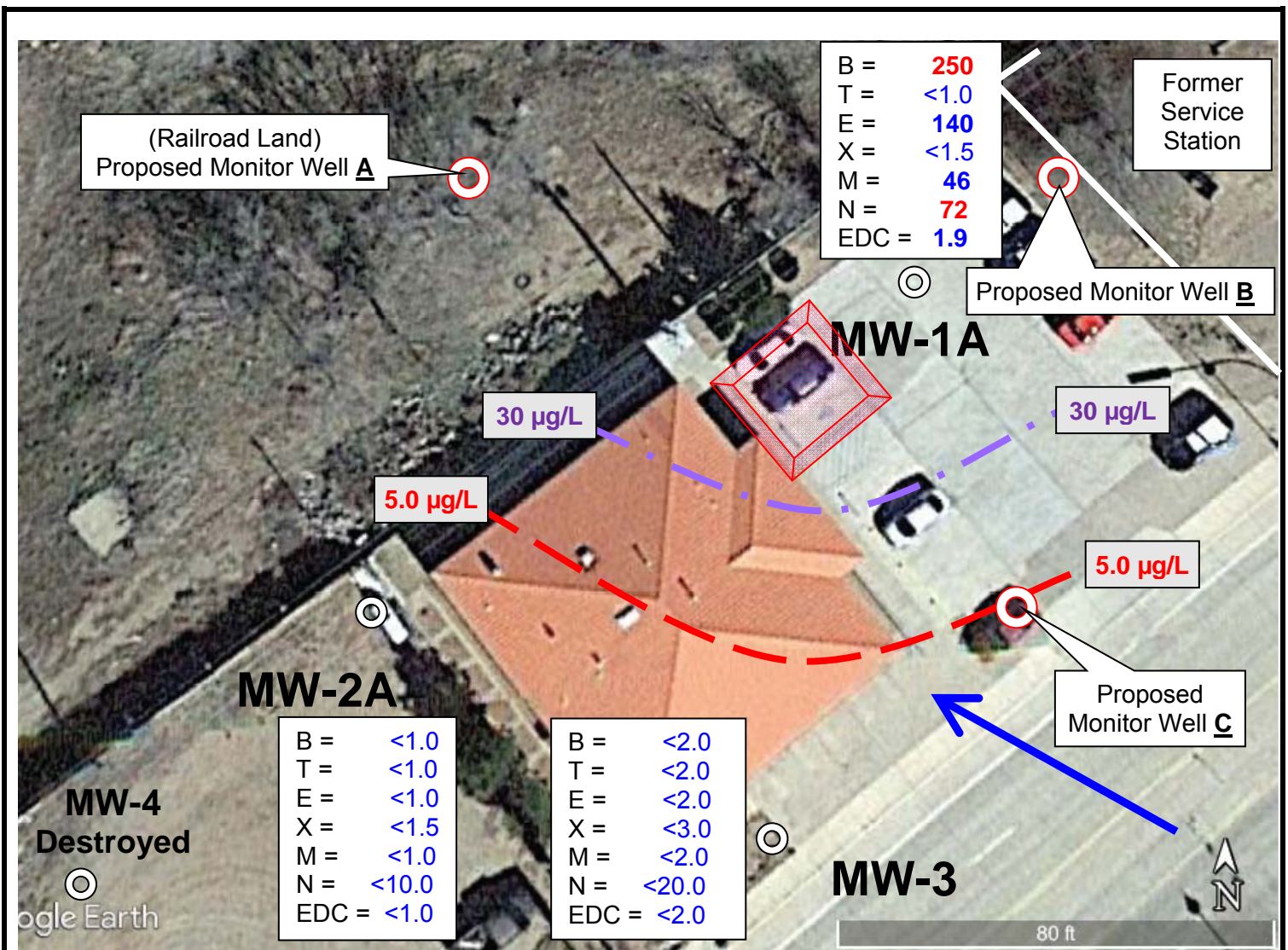
Site Plan and Ground Water Contour Map: : April 26, 2019

WESTERN TECHNOLOGIES INC.

Job No.: 3288JV032

Figure 2



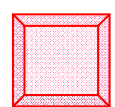


B =	250
T =	<1.0
E =	140
X =	<1.5
M =	46
N =	72
EDC =	1.9

B =	<1.0
T =	<1.0
E =	<1.0
X =	<1.5
M =	<1.0
N =	<10.0
EDC =	<1.0

B =	<2.0
T =	<2.0
E =	<2.0
X =	<3.0
M =	<2.0
N =	<20.0
EDC =	<2.0

B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylene
 M = Methyl-tert-butyl ether (MTBE)
 EDC = 1,2-Dichloroethane
 N = Total Naphthalenes



Former USTs: Location is Approximate



Monitor Wells: Proposed Monitor Well

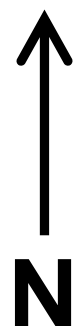
5.0 µg/L Benzene Contour

30 µg/L Total Naphthalenes Contour

Values in **Red** ≥ NMWQCC regulatory limits

Values in **Blue** < NMWQCC regulatory limits

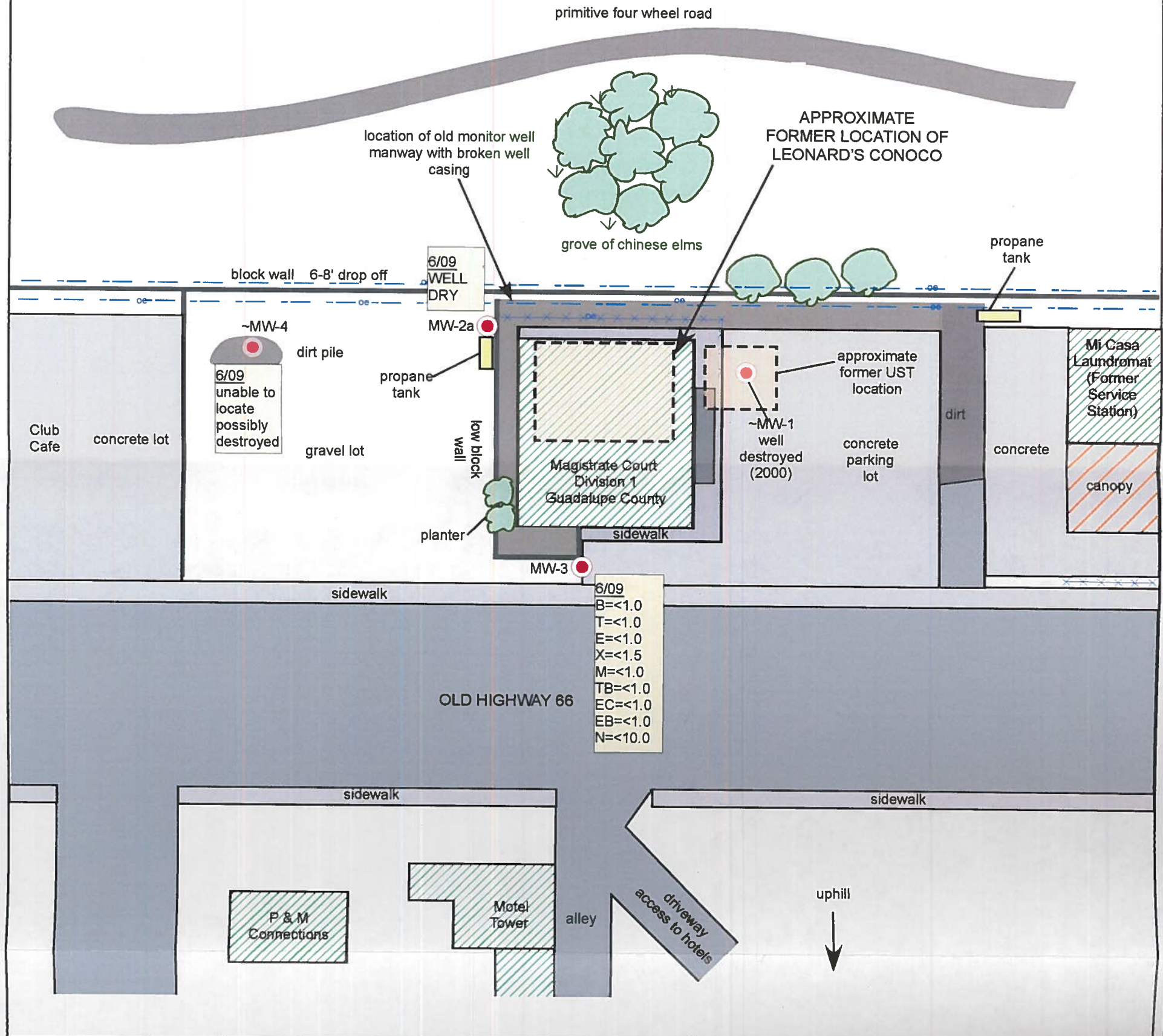
Gradient = 0.013 ft/ft



Leonard's Conoco: 603 Parker Avenue, Santa Rosa, New Mexico 88435 NMED PSTB Facility # 29084: Release ID # 755	
Dissolved Petroleum Hydrocarbon Concentration Map: April 26, 2019	
WESTERN TECHNOLOGIES INC.	
Job No.: 3288JV032	Figure 3



295' from block wall to railroad tracks
315' to fence on north side of rr tracks



EXPLANATION

- MW-19 ● Big Rock Site Monitor Well
- MW-4 ● Missing Monitor Well
- Building
- Asphalt/Road
- Concrete
- Dirt
- Trees/Vegetation
- Fence
- Overhead Power

ORGANIC GROUNDWATER QUALITY (in ppb)

6/09	6/09 = date of sampling
B=450	B=benzene
T=24	T=toluene
E=97	E=ethyl benzene
X=64	X=total xylenes
M=<5	M=MTBE
TB=25.1	TB=tri-methyl benzenes
EC=<5	EC=1,2 dichloroethane
EB=<5	EB=1,2 dibromoethane
N=17	N=total naphthalenes



0 40 ft
Scale 1" = 40'

approximate locations for missing wells and former station facilities obtained from Innovative Explorations Report, 2004

SITE BASE MAP WITH 6-09 GROUNDWATER SAMPLING RESULTS

Leonard's Conoco
603 Parker Avenue, Santa Rosa, NM

TECUMSEH PROFESSIONAL ASSOCIATES, INC.
5000 Wyoming Blvd. NE, Suite 150, Albuquerque, New Mexico 87110
PHONE: (505) 263-1156 FAX: (505) 263-1071

BROWN ENVIRONMENTAL, INC.
4779 ACADEMY ROAD NE, SUITE 234, ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 838-8888 FAX: (505) 838-0707

Drawn by:	PJF	6/09	Client: NMED
Drafted by:	EMB	6/09	Job #: 1153
Reviewed by:	WJB	6/09	Figure: 1

APPENDIX B

Tables



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

**TABLE 1
 Ground Water Elevation Data**

Monitor Well ID	Date	Casing Rim Elevation* (Feet)	Depth to Bottom (Feet)	Bottom of Casing Elevation (measured) (Feet)	Depth to Ground Water (Feet)	Water Column Thickness (Feet)	Potentiometric Surface Elevation (Feet)
MW-1A a b	04/26/19	4615.84	18.70	<i>Screened Interval & Original Total Depth: Not Available</i>			4601.04
	12/12/17	4615.84	18.70	4597.14	14.80	3.90	4601.30
	01/26/17	4615.84	18.70	4597.14	14.54	4.16	4601.08
	07/29/16	4615.84	18.70	4597.14	14.76	3.94	4600.34
	03/24/14	4615.84	18.70	4597.14	15.50	3.20	4600.54
	10/30/13	4615.84	18.70	4597.14	15.30	3.40	4601.88
	10/30/13	4615.84	18.70	4597.14	13.96	4.74	
MW-2A a b	04/26/19	4613.53	19.00	<i>Screened Interval & Original Total Depth: Not Available</i>			4600.37
	12/12/17	4613.53	19.00	4594.53	13.16	5.84	4600.48
	01/26/17	4613.53	19.00	4594.53	13.05	5.95	4600.41
	07/29/16	4613.53	19.00	4594.53	13.12	5.88	4599.21
	07/29/16	4613.53	19.00	4594.53	14.32	4.68	
	03/24/14	4613.53	19.00	Roots in casing. No depth to water recorded			
	10/30/13	4613.53	19.00	4594.53	12.54	6.46	4600.99
	06/11/09	4613.39	19.00	Roots in casing. No depth to water recorded			
09/23/01	4613.39	19.00	4594.39	Dry			



TABLE 1
Ground Water Elevation Data

Monitor Well ID	Date	Casing Rim Elevation* (Feet)	Depth to Bottom (Feet)	Bottom of Casing Elevation (measured) (Feet)	Depth to Ground Water (Feet)	Water Column Thickness (Feet)	Potentiometric Surface Elevation (Feet)
^c MW-3 a	04/26/19	4615.00	27.94	<i>Screened Interval & Original Total Depth: Not Available</i>			
	12/12/17	4615.00	27.94	4587.06	13.59	14.35	4601.41
	01/26/17	4615.02	27.94	4587.06	13.27	14.67	4601.73
	07/29/16	4615.02	27.94	4587.08	14.03	13.91	4600.99
	03/24/14	4615.02	27.94	4587.08	14.64	13.30	4600.38
	10/30/13	4615.02	27.94	4587.08	14.04	13.90	4600.98
	06/11/09	4615.02	27.94	4587.08	12.50	15.44	4602.52
	09/23/01	4615.02	27.94	4587.08	13.90	14.04	4601.12
	03/29/95	4615.02	27.94	4587.08	12.49	15.45	4602.53
^d MW-4	09/23/01	4590.18	unknown	<i>Screened Interval & Original Total Depth: Not Available</i>			
	03/29/95	4590.18	unknown	unknown	9.57	unknown	4580.61
				unknown	10.86	unknown	4579.32

Casing Elevations and screened intervals from Annual Groundwater Monitoring and MW-3 Well Surface Completion Report (3/17/18)

^a MW-1A, MW-2A and MW-3 top-of-casing elevations resurveyed on January 18, 2018 by Surveying Control, Inc. MW-1A and MW-2A ground water normalized to January 2018 resurvey data.

^b Top of casing elevations prior to January 2018 resurvey are questionable because of elevation discrepancies.

^c MW-3 Top of casing adjusted in December 2017

^d MW-4 last located in September 2001. MW-4 may be paved over or destroyed.



WESTERN TECHNOLOGIES INC.

TABLE 2
 Ground Water Field Data

Monitor Well ID	Depth DTW DTB	Time 04/26/19	Temp. (°C)	RDO Dissolved Oxygen (mg/L)	pH	Eh ORP (mV)	Specific Conductivity (µS/cm)*	Volume Removed (gallons)	COMMENTS
MW-1A	<u>DTW</u>	4/26/2019 11:40	16.7	1.39	7.19	-142	3,218	0	Slightly turbid, grey, weathered HC odor
	14.80	4/26/2019 11:42	16.7	6.53	7.35	-127	1,926	0.75	Slightly turbid, grey, weathered HC odor
	<u>TD</u>	4/26/2019 11:43	16.7	1.38	7.26	-142	3,169	1.25	Slightly turbid, grey, weathered HC odor
	18.70	4/26/2019 11:45	16.7	1.63	7.30	-143	3,156	2.00	Slightly turbid, grey, weathered HC odor
MW-2A	<u>DTW</u>	4/26/2019 10:30	15.6	1.11	7.59	195	3,140	0	Turbid, brown
	13.16	4/26/2019 10:33	15.6	2.34	7.62	122	3,118	1.25	Turbid, brown
	<u>TD</u>	4/26/2019 10:35	15.6	2.19	7.60	98	3,083	2.25	Turbid, brown
	19.00	4/26/2019 10:39	15.7	2.35	7.60	86	3,003	3.50	Turbid, brown
MW-3	<u>DTW</u>	4/26/2019 11:01	17.5	2.46	7.31	455	3,520	0	Turbid, brown
	13.59	4/26/2019 11:06	17.9	2.28	7.31	398	3,516	2.50	Turbid, brown
	<u>TD</u>	4/26/2019 11:11	18.3	2.50	7.34	365	3,489	4.75	Turbid, brown
	27.94	4/26/2019 11:15	18.4	3.22	7.46	345	2,897	7.00	Very turbid, brown
MW-4								Could not locate (Last located on 9/23/01)	

ORP = Oxidation Reduction Potential (Eh)

* = temperature compensated specific conductivity



TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.05	5.0	30
MW-1A	04/26/19	250	<1.0	140	<1.5	390	46	<1.0	1.9	72
	12/12/17	430	<1.0	310	<1.5	740	45	<1.0	2.1	207
	01/26/17	93	<1.0	58	<1.5	151	15	<1.0	<1.0	25
	07/29/16	100	<1.0	38	<1.5	138	21	<1.0	<1.0	37
	03/24/14	250	<5.0	250	<7.5	500	18	<5.0	<5.0	84
	10/25/13	79	<5.0	210	<7.5	289	<5.0	<5.0	<5.0	79
MW-1	03/24/14				Plugged and abandoned					
	10/25/13				Well dry at 9.40 feet - not sampled					
	12/31/00				Well not sampled					
	03/20/99	57	ND	90	4.1	151	10	ND	ND	—
	10/18/98	83	2.7	71	12	168.7	43	ND	2.2	—
	11/07/97	180	2.7	36	6.5	225.2	150	ND	13	—
	03/31/95	440	26	400	81	947	320	—	—	—



TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L	
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.05	5.0	30	
MW-2A	04/26/19	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	12/12/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	01/26/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	07/29/16	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10	
	03/24/14	Well dry at 13.70 feet - not sampled									
	10/25/13	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0	
	06/11/09	Well dry at 13.97 feet - not sampled									
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—	
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—	
MW-2	03/20/00	Plugged and abandoned									
	10/18/98	6.3	ND	0.7	2.5	9.5	ND	ND	—	—	
	11/07/97	3.3	ND	1.6	2.3	7.2	1.2	ND	15	—	
	03/31/95	420	6.4	540	86	1,052.4	4.5	—	—	—	



Leonard's Conoco
 1633 Historic Route 66
 Santa Rosa, New Mexico 88435
 PSTB Facility # 29084: Release ID #755

WESTERN TECHNOLOGIES INC.

TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.05	5.0	30
MW-3	04/26/19	<2.0	<2.0	<2.0	<3.0	<4.5	<2.0	<2.0	<2.0	<20
	12/12/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	01/26/17	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	07/29/16	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	03/24/14	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0
	10/25/13	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<4.0
	06/11/09	<1.0	<1.0	<1.0	<1.5	<4.5	<1.0	<1.0	<1.0	<10
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—
	03/20/99	ND	ND	ND	ND	ND	ND	ND	0.6	—
	10/18/98	ND	ND	ND	ND	ND	ND	ND	0.8	—
	11/07/97	ND	ND	ND	ND	ND	ND	ND	3.2	—
03/31/95	39	8.2	6.3	15	68.5	ND	—	—	—	



TABLE 3
Summary of Water Sample Analytical Test Results

Monitor Well	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Total BTEX µg/L	MTBE µg/L	EDB µg/L	EDC µg/L	Total Naphthalenes µg/L
NMWQCC Regulatory Limits =		5.0	1,000	700	620	none	100	0.05	5.0	30
MW-4	04/26/19					Well Not Located				
	10/25/13					Well Not Located				
	06/11/09					Well Not Located				
	09/23/01	ND	ND	ND	ND	ND	ND	ND	ND	—
	12/31/00	ND	ND	ND	ND	ND	ND	ND	ND	—
	03/20/99	ND	ND	ND	ND	ND	ND	ND	0.3	—
	10/18/98	ND	ND	ND	ND	ND	ND	ND	0.9	—
	11/07/97	ND	ND	ND	ND	ND	ND	ND	ND	—
03/29/95	<0.5	3.0	<0.5	2.9	5.9	<2.5	—	—	—	

Total BTEX = total benzene, toluene, ethylbenzene, and xylenes

EDB = 1,2-Dibromoethane. EDB values <1.0 indicates that EDB analyzed by EPA Method 504.1.

Total Naphthalenes = total of naphthalene, 1-methylnaphthalene & 2-methylnaphthalene

NMWQCC = New Mexico Water Quality Control Commission

BOLD RED Indicates Laboratory Analytical Result ≥ NMWQCC Regulatory Limit

RED (Not bold) Indicates PQLs ≥ NMWQCC Regulatory Limit

MTBE = Methyl-tert-butyl ether

EDC = 1,2-Dichloroethane

µg/L = micrograms per Liter

"-" indicates Not Analyzed or Not Available



WESTERN TECHNOLOGIES INC.
TABLE 4
Current Ground Water Sample Analytical Test Results
Volatile Organic Analysis by EPA Method 8260B

Sample ID = Date = Units =	MW-1A 04/26/19 µg/L	MW-2A 04/26/19 µg/L	MW-3 04/26/19 µg/L	MW-4 04/26/19 µg/L
Benzene	250	< 1.0	< 2.0	Not Located since 2001
Toluene	< 1.0	< 1.0	< 2.0	
Ethylbenzene	140	< 1.0	< 2.0	
Methyl tert-butyl ether (MTBE)	46	< 1.0	< 2.0	
1,2,4-Trimethylbenzene	1.1	< 1.0	< 2.0	
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 2.0	
1,2-Dichloroethane (EDC)	1.9	< 1.0	< 2.0	
1,2-Dibromoethane (EDB)	< 1.0	< 1.0	< 2.0	
Naphthalene	52	< 2.0	< 4.0	
1-Methylnaphthalene	20	< 4.0	< 8.0	
2-Methylnaphthalene	< 4.0	< 4.0	< 8.0	
Total Naphthalenes =	72	<10.0	<20.0	
Acetone	< 10	< 10	< 20	
Bromobenzene	< 1.0	< 1.0	< 2.0	
Bromodichloromethane	< 1.0	< 1.0	< 2.0	
Bromoform	< 1.0	< 1.0	< 2.0	
Bromomethane	< 3.0	< 3.0	< 6.0	
2-Butanone	< 10	< 10	< 20	
Carbon disulfide	< 10	< 10	< 20	
Carbon Tetrachloride	< 1.0	< 1.0	< 2.0	
Chlorobenzene	< 1.0	< 1.0	< 2.0	
Chloroethane	< 2.0	< 2.0	< 4.0	
Chloroform	< 1.0	< 1.0	< 2.0	
Chloromethane	< 3.0	< 3.0	< 6.0	
2-Chlorotoluene	< 1.0	< 1.0	< 2.0	
4-Chlorotoluene	< 1.0	< 1.0	< 2.0	
cis-1,2-DCE	< 1.0	< 1.0	< 2.0	
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 2.0	
1,2-Dibromo-3-chloropropane	< 2.0	< 2.0	< 4.0	
Dibromochloromethane	< 1.0	< 1.0	< 2.0	
Dibromomethane	< 1.0	< 1.0	< 2.0	
1,2-Dichlorobenzene	< 1.0	< 1.0	< 2.0	
1,3-Dichlorobenzene	< 1.0	< 1.0	< 2.0	
1,4-Dichlorobenzene	< 1.0	< 1.0	< 2.0	
Dichlorodifluoromethane	< 1.0	< 1.0	< 2.0	
1,1-Dichloroethane	< 1.0	< 1.0	< 2.0	
1,1-Dichloroethene	< 1.0	< 1.0	< 2.0	
1,2-Dichloropropane	< 1.0	< 1.0	< 2.0	
1,3-Dichloropropane	< 1.0	< 1.0	< 2.0	
2,2-Dichloropropane	< 2.0	< 2.0	< 4.0	
1,1-Dichloropropene	< 1.0	< 1.0	< 2.0	
Hexachlorobutadiene	< 1.0	< 1.0	< 2.0	
2-Hexanone	< 10	< 10	< 20	
Isopropylbenzene	15	< 1.0	< 2.0	
4-Isopropyltoluene	< 1.0	< 1.0	< 2.0	
4-Methyl-2-pentanone	< 10	< 10	< 20	
Methylene Chloride	< 3.0	< 3.0	< 6.0	
n-Butylbenzene	< 3.0	< 3.0	< 6.0	
n-Propylbenzene	15	< 1.0	< 2.0	
sec-Butylbenzene	2.3	< 1.0	< 2.0	
Styrene	< 1.0	< 1.0	< 2.0	
tert-Butylbenzene	< 1.0	< 1.0	< 2.0	
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 2.0	
1,1,2,2-Tetrachloroethane	< 2.0	< 2.0	< 4.0	
Tetrachloroethene (PCE)	< 1.0	< 1.0	< 2.0	
trans-1,2-DCE	< 1.0	< 1.0	< 2.0	
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 2.0	
1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 2.0	
1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 2.0	
1,1,1-Trichloroethane	< 1.0	< 1.0	< 2.0	
1,1,2-Trichloroethane	< 1.0	< 1.0	< 2.0	
Trichloroethene (TCE)	< 1.0	< 1.0	< 2.0	
Trichlorofluoromethane	< 1.0	< 1.0	< 2.0	
1,2,3-Trichloropropane	< 2.0	< 2.0	< 4.0	
Vinyl chloride	< 1.0	< 1.0	< 2.0	
Xylenes, Total	< 1.5	< 1.5	< 3.0	



APPENDIX C

Hall Environmental Analysis Laboratory Report





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 07, 2019

Sean Moggridge

Western Technologies
8305 Washington Place NE
Albuquerque, NM 87113-1670
TEL: (505) 823-4488
FAX (505) 821-2963

RE: Leonards Conoco

OrderNo.: 1904D37

Dear Sean Moggridge:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/26/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-1A

Project: Leonards Conoco

Collection Date: 4/26/2019 11:50:00 AM

Lab ID: 1904D37-001

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	250	10		µg/L	10	5/3/2019 11:18:00 AM	R59648
Toluene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Ethylbenzene	140	10		µg/L	10	5/3/2019 11:18:00 AM	R59648
Methyl tert-butyl ether (MTBE)	46	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2,4-Trimethylbenzene	1.1	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2-Dichloroethane (EDC)	1.9	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Naphthalene	52	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1-Methylnaphthalene	20	4.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
2-Methylnaphthalene	ND	4.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Acetone	ND	10		µg/L	1	5/1/2019 5:49:00 PM	R59565
Bromobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Bromodichloromethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Bromoform	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Bromomethane	ND	3.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
2-Butanone	ND	10		µg/L	1	5/1/2019 5:49:00 PM	R59565
Carbon disulfide	ND	10		µg/L	1	5/1/2019 5:49:00 PM	R59565
Carbon Tetrachloride	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Chlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Chloroethane	ND	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Chloroform	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Chloromethane	ND	3.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
2-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
4-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
cis-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Dibromochloromethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Dibromomethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1-Dichloroethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1-Dichloroethene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,3-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
2,2-Dichloropropane	ND	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-1A

Project: Leonards Conoco

Collection Date: 4/26/2019 11:50:00 AM

Lab ID: 1904D37-001

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,1-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Hexachlorobutadiene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
2-Hexanone	ND	10		µg/L	1	5/1/2019 5:49:00 PM	R59565
Isopropylbenzene	15	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
4-Isopropyltoluene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
4-Methyl-2-pentanone	ND	10		µg/L	1	5/1/2019 5:49:00 PM	R59565
Methylene Chloride	ND	3.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
n-Butylbenzene	ND	3.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
n-Propylbenzene	15	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
sec-Butylbenzene	2.3	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Styrene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
tert-Butylbenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
trans-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Trichlorofluoromethane	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Vinyl chloride	ND	1.0		µg/L	1	5/1/2019 5:49:00 PM	R59565
Xylenes, Total	ND	1.5		µg/L	1	5/1/2019 5:49:00 PM	R59565
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	1	5/1/2019 5:49:00 PM	R59565
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/1/2019 5:49:00 PM	R59565
Surr: Dibromofluoromethane	96.0	70-130		%Rec	1	5/1/2019 5:49:00 PM	R59565
Surr: Toluene-d8	98.0	70-130		%Rec	1	5/1/2019 5:49:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-2A

Project: Leonards Conoco

Collection Date: 4/26/2019 10:45:00 AM

Lab ID: 1904D37-002

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Toluene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Ethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Naphthalene	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1-Methylnaphthalene	ND	4.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
2-Methylnaphthalene	ND	4.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Acetone	ND	10		µg/L	1	5/1/2019 7:00:00 PM	R59565
Bromobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Bromodichloromethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Bromoform	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Bromomethane	ND	3.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
2-Butanone	ND	10		µg/L	1	5/1/2019 7:00:00 PM	R59565
Carbon disulfide	ND	10		µg/L	1	5/1/2019 7:00:00 PM	R59565
Carbon Tetrachloride	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Chlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Chloroethane	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Chloroform	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Chloromethane	ND	3.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
2-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
4-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
cis-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Dibromochloromethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Dibromomethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1-Dichloroethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1-Dichloroethene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,3-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
2,2-Dichloropropane	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-2A

Project: Leonards Conoco

Collection Date: 4/26/2019 10:45:00 AM

Lab ID: 1904D37-002

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,1-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Hexachlorobutadiene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
2-Hexanone	ND	10		µg/L	1	5/1/2019 7:00:00 PM	R59565
Isopropylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
4-Isopropyltoluene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
4-Methyl-2-pentanone	ND	10		µg/L	1	5/1/2019 7:00:00 PM	R59565
Methylene Chloride	ND	3.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
n-Butylbenzene	ND	3.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
n-Propylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
sec-Butylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Styrene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
tert-Butylbenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
trans-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Trichlorofluoromethane	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Vinyl chloride	ND	1.0		µg/L	1	5/1/2019 7:00:00 PM	R59565
Xylenes, Total	ND	1.5		µg/L	1	5/1/2019 7:00:00 PM	R59565
Surr: 1,2-Dichloroethane-d4	99.1	70-130		%Rec	1	5/1/2019 7:00:00 PM	R59565
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/1/2019 7:00:00 PM	R59565
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	5/1/2019 7:00:00 PM	R59565
Surr: Toluene-d8	101	70-130		%Rec	1	5/1/2019 7:00:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-3

Project: Leonards Conoco

Collection Date: 4/26/2019 11:20:00 AM

Lab ID: 1904D37-003

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Toluene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Ethylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Methyl tert-butyl ether (MTBE)	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2,4-Trimethylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,3,5-Trimethylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2-Dichloroethane (EDC)	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2-Dibromoethane (EDB)	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Naphthalene	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1-Methylnaphthalene	ND	8.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
2-Methylnaphthalene	ND	8.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Acetone	ND	20		µg/L	2	5/1/2019 7:24:00 PM	R59565
Bromobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Bromodichloromethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Bromoform	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Bromomethane	ND	6.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
2-Butanone	ND	20		µg/L	2	5/1/2019 7:24:00 PM	R59565
Carbon disulfide	ND	20		µg/L	2	5/1/2019 7:24:00 PM	R59565
Carbon Tetrachloride	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Chlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Chloroethane	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Chloroform	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Chloromethane	ND	6.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
2-Chlorotoluene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
4-Chlorotoluene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
cis-1,2-DCE	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
cis-1,3-Dichloropropene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2-Dibromo-3-chloropropane	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Dibromochloromethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Dibromomethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2-Dichlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,3-Dichlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,4-Dichlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Dichlorodifluoromethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1-Dichloroethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1-Dichloroethene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2-Dichloropropane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,3-Dichloropropane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
2,2-Dichloropropane	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: MW-3

Project: Leonards Conoco

Collection Date: 4/26/2019 11:20:00 AM

Lab ID: 1904D37-003

Matrix: AQUEOUS

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,1-Dichloropropene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Hexachlorobutadiene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
2-Hexanone	ND	20		µg/L	2	5/1/2019 7:24:00 PM	R59565
Isopropylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
4-Isopropyltoluene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
4-Methyl-2-pentanone	ND	20		µg/L	2	5/1/2019 7:24:00 PM	R59565
Methylene Chloride	ND	6.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
n-Butylbenzene	ND	6.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
n-Propylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
sec-Butylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Styrene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
tert-Butylbenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1,1,2-Tetrachloroethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1,2,2-Tetrachloroethane	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Tetrachloroethene (PCE)	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
trans-1,2-DCE	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
trans-1,3-Dichloropropene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2,3-Trichlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2,4-Trichlorobenzene	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1,1-Trichloroethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,1,2-Trichloroethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Trichloroethene (TCE)	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Trichlorofluoromethane	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
1,2,3-Trichloropropane	ND	4.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Vinyl chloride	ND	2.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Xylenes, Total	ND	3.0		µg/L	2	5/1/2019 7:24:00 PM	R59565
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	2	5/1/2019 7:24:00 PM	R59565
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	2	5/1/2019 7:24:00 PM	R59565
Surr: Dibromofluoromethane	97.8	70-130		%Rec	2	5/1/2019 7:24:00 PM	R59565
Surr: Toluene-d8	106	70-130		%Rec	2	5/1/2019 7:24:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: TRIP BLANK

Project: Leonards Conoco

Collection Date:

Lab ID: 1904D37-004

Matrix: TRIP BLANK

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
Benzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Toluene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Ethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Naphthalene	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1-Methylnaphthalene	ND	4.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
2-Methylnaphthalene	ND	4.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Acetone	ND	10		µg/L	1	5/1/2019 7:48:00 PM	R59565
Bromobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Bromodichloromethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Bromoform	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Bromomethane	ND	3.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
2-Butanone	ND	10		µg/L	1	5/1/2019 7:48:00 PM	R59565
Carbon disulfide	ND	10		µg/L	1	5/1/2019 7:48:00 PM	R59565
Carbon Tetrachloride	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Chlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Chloroethane	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Chloroform	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Chloromethane	ND	3.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
2-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
4-Chlorotoluene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
cis-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Dibromochloromethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Dibromomethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1-Dichloroethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1-Dichloroethene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,3-Dichloropropane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
2,2-Dichloropropane	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1904D37

Date Reported: 5/7/2019

CLIENT: Western Technologies

Client Sample ID: TRIP BLANK

Project: Leonards Conoco

Collection Date:

Lab ID: 1904D37-004

Matrix: TRIP BLANK

Received Date: 4/26/2019 3:55:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: RAA
1,1-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Hexachlorobutadiene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
2-Hexanone	ND	10		µg/L	1	5/1/2019 7:48:00 PM	R59565
Isopropylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
4-Isopropyltoluene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
4-Methyl-2-pentanone	ND	10		µg/L	1	5/1/2019 7:48:00 PM	R59565
Methylene Chloride	ND	3.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
n-Butylbenzene	ND	3.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
n-Propylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
sec-Butylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Styrene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
tert-Butylbenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
trans-1,2-DCE	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Trichlorofluoromethane	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Vinyl chloride	ND	1.0		µg/L	1	5/1/2019 7:48:00 PM	R59565
Xylenes, Total	ND	1.5		µg/L	1	5/1/2019 7:48:00 PM	R59565
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	5/1/2019 7:48:00 PM	R59565
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	5/1/2019 7:48:00 PM	R59565
Surr: Dibromofluoromethane	100	70-130		%Rec	1	5/1/2019 7:48:00 PM	R59565
Surr: Toluene-d8	101	70-130		%Rec	1	5/1/2019 7:48:00 PM	R59565

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904D37

07-May-19

Client: Western Technologies

Project: Leonards Conoco

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R59565	RunNo: 59565								
Prep Date:	Analysis Date: 5/1/2019	SeqNo: 2008250 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.2	70	130			
Toluene	18	1.0	20.00	0	90.8	70	130			
Chlorobenzene	20	1.0	20.00	0	98.1	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	83.0	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	83.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R59565	RunNo: 59565								
Prep Date:	Analysis Date: 5/1/2019	SeqNo: 2008377 Units: µg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904D37

07-May-19

Client: Western Technologies

Project: Leonards Conoco

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: rb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R59565		RunNo: 59565							
Prep Date:	Analysis Date: 5/1/2019		SeqNo: 2008377		Units: µg/L					
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904D37

07-May-19

Client: Western Technologies

Project: Leonards Conoco

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R59565	RunNo: 59565								
Prep Date:	Analysis Date: 5/1/2019	SeqNo: 2008377			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Sample ID: 1904d37-001ams	SampType: MS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1A	Batch ID: R59565	RunNo: 59565								
Prep Date:	Analysis Date: 5/1/2019	SeqNo: 2008382			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	250	1.0	20.00	239.3	70.0	70	130			E
Toluene	19	1.0	20.00	0.5560	93.2	70	130			
Chlorobenzene	19	1.0	20.00	0	96.0	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	81.9	67.6	130			
Trichloroethene (TCE)	17	1.0	20.00	0.4400	84.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.5	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.1	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID: 1904d37-001amsd	SampType: MSD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-1A	Batch ID: R59565	RunNo: 59565								
Prep Date:	Analysis Date: 5/1/2019	SeqNo: 2008383			Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	250	1.0	20.00	239.3	52.4	70	130	1.40	20	ES
Toluene	18	1.0	20.00	0.5560	89.2	70	130	4.22	20	
Chlorobenzene	19	1.0	20.00	0	96.7	70	130	0.705	20	
1,1-Dichloroethene	16	1.0	20.00	0	81.1	67.6	130	0.957	20	
Trichloroethene (TCE)	17	1.0	20.00	0.4400	82.9	70	130	1.31	20	
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130	0	0	
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.2	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904D37

07-May-19

Client: Western Technologies

Project: Leonards Conoco

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R59648	RunNo: 59648								
Prep Date:	Analysis Date: 5/3/2019	SeqNo: 2010747	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R59648	RunNo: 59648								
Prep Date:	Analysis Date: 5/3/2019	SeqNo: 2010748	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.7	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	70	130			

Qualifiers:

- | | |
|---------------------------------------------------------|---------------------------------------------------|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

Sample Log-In Check List

Client Name: **WTI** Work Order Number: **1904D37** RcptNo: **1**

Received By: **Desiree Dominguez** 4/26/2019 3:55:00 PM *DD*
 Completed By: **Desiree Dominguez** 4/26/2019 4:05:35 PM *DD*
 Reviewed By: *LB* *4/26/19*
LB: thm 4-26-19

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. VOA vials have zero headspace? Yes No No VOA Vials
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

thm
4-26-19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good	Not Present			

Chain-of-Custody Record

Client: WESTERN TECHNOLOGIES

Mailing Address: 8305 WASHINGTON AVE

ABQ, NM, 87113

Phone #: 823 4488

email or Fax#: S.MOULDRIDGE@WT-US.COM

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other _____

EDD (Type) _____

Turn-Around Time: _____
 Standard Rush

Project Name: 3288JV032

Project #: LEONARDO'S CONOCO

Project Manager: SEAN MOULDRIDGE

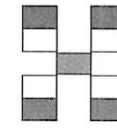
Sampler: SEAN MOULDRIDGE

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 4.5°C

Container Type and #	Preservative Type	HEAL No.
<u>3x VOA</u>	<u>HgCl + ice</u>	<u>1904D37</u>



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
<u>4-26-19</u>	<u>1150</u>	<u>GW</u>	<u>MW-1A</u>	<u>3x VOA</u>	<u>HgCl + ice</u>	<u>-001</u>								<u>X</u>		
<u>4-26-19</u>	<u>1045</u>	<u>GW</u>	<u>MW-2A</u>	<u>3x VOA</u>	<u>HgCl + ice</u>	<u>-002</u>								<u>X</u>		
<u>4-26-19</u>	<u>1120</u>	<u>GW</u>	<u>MW-3</u>	<u>3x VOA</u>	<u>HgCl + ice</u>	<u>-003</u>								<u>X</u>		
			<u>Trip Blank</u>			<u>-004</u>										
			<u>DAD 4/26/19</u>													

Date: <u>4-26-19</u>	Time: <u>1555</u>	Relinquished by: <u>Sean Moulbridge</u>	Received by: <u>[Signature]</u>	Via: <u>CDO</u>	Date: <u>4/26/19</u>	Time: <u>15:55</u>
Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX D

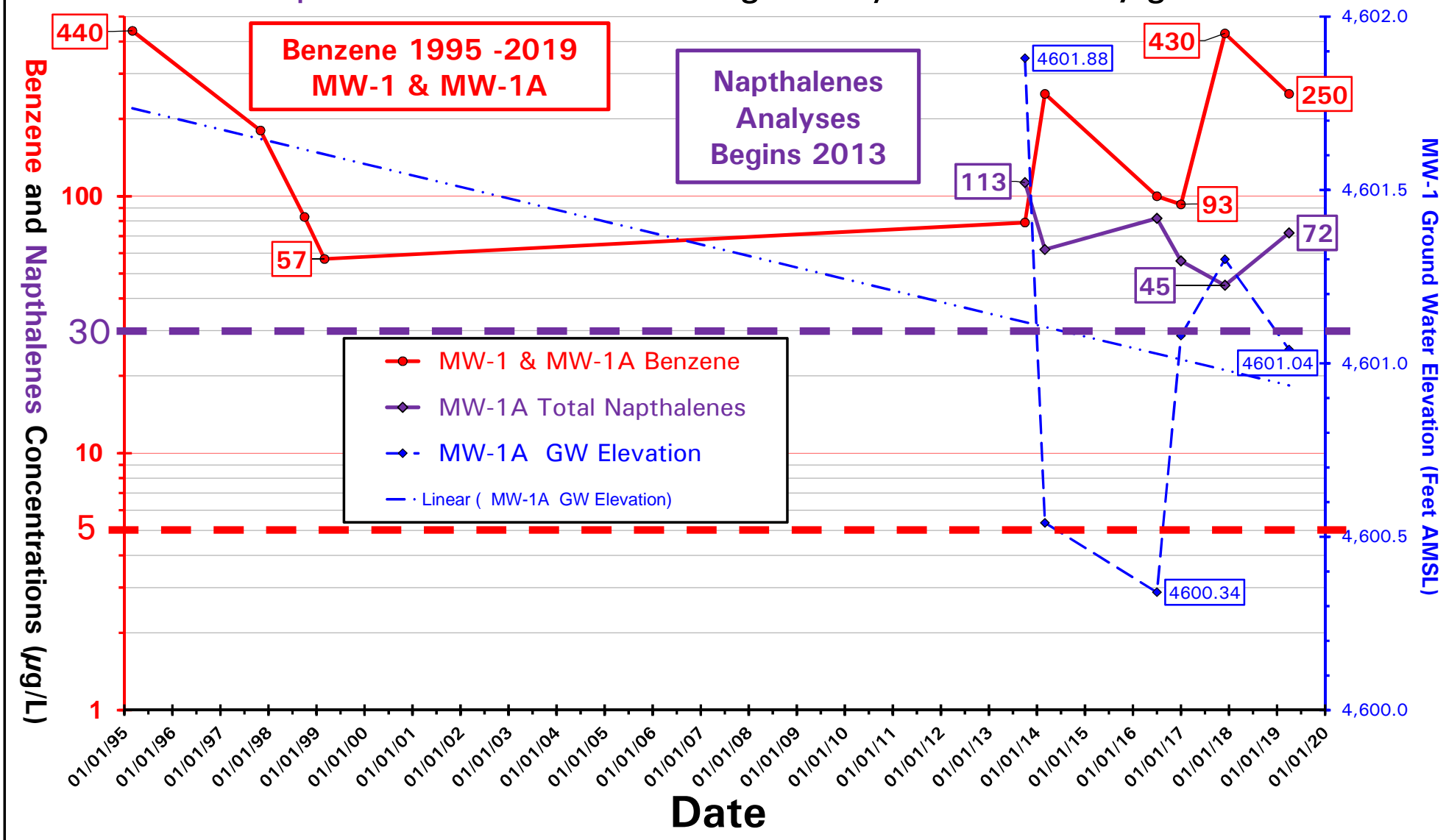
Chart 1



Chart 1: MW-1 Benzene and Napthalene Concentrations (logarithmic) versus MW-1A Ground Water Elevations: January 1995 to Date

Benzene NMWQCC Regulatory Limit = **5.0** $\mu\text{g/L}$

Napthalenes NMWQCC Regulatory Limit = **30** $\mu\text{g/L}$



APPENDIX E
CONSENT FOR ACCESS AGREEMENT
FIELD NOTES
PHOTOGRAPHIC LOG

SURVEYING CONTROL, INC.
MONITOR WELL SURVEY, JANUARY 25, 2018



CONSENT FOR ACCESS TO PROPERTY

Name of Property Owner: Joe Campos
Location of Property: Former Leonard's Conoco
1633 Historic Route 66, Santa Rosa, New Mexico 88435

This is my consent to the New Mexico Environment Department (Department) and its authorized officers, employees, contractors, and representatives for access to the above-described Property for the following purposes:

Ground Water Monitoring and associated activities.

The Department or its representative will provide the Property Owner written or oral notice prior to each entrance onto Property. This notice shall be given to:

Representative: Joe Campos

Address: _____

Telephone: 575-472-3361

Email: joecampos@live.com

Property Owner may observe activities on the Property, consistent with Occupational Health and Safety Regulations (see 29 CFR § 1910.120) and may split all samples collected at the Property. Property Owner is responsible for the provision of all equipment and accessories and for laboratory costs necessary to split samples.

Installations on the Property will be placed to minimize interference with the movement of vehicles and regular activities on the Property. Following completion of the project, the Department or its representative will properly abandon all wells, remove equipment, all materials, trash, fencing, and other associated items. The Department or its representative will otherwise return the property as close as possible to the pre-entrance condition.

This permission is given by me voluntarily with knowledge of my right to refuse and without coercion. I have had an opportunity to ask questions and all my questions have been answered to my satisfaction.



Signature-Property Owner

4/25/19

Date



GROUND WATER MONITORING FIELD LOG

Site: Leonard's Conoco
 Project: 3288JV032
 Date: April 26, 2019

Weather Conditions: partial clouds ~15°C
and gusting from SW

Well ID: MW-1A
 Sample ID: _____

Well Diameter		
1/4"	<u>(2)</u>	4" 6"

Water Column Data	
Depth to NAPL	<u>-</u>
Depth to Water	<u>14.80</u>
Depth to Bottom	<u>18.70</u>
Water Column Height	<u>3.90</u>

Well Vol. Conversion	
1.25"	0.06 Gal/ft
2"	0.16 Gal/ft
4"	0.65 Gal/ft
6"	1.47 Gal/ft

Well Vol.s	
1	<u>0.62</u>
2	<u>1.25</u>
3	<u>1.87</u>

Ground Water Quality Data

Time	Temp (°C)	RDO (mg/L)	pH	ORP (mV)	S. Cond (µS/cm)*	Volume (US Gal)	Observations	
Did not record initial - check for digital ^e ~1138							0	S. turbid, grey/brown, weathered ^{HC} odor
1140	16.7	1.39	7.19	-142.7	3218	0.75	" , grey, " "	
1142	16.7	1.42	7.26	-141.5	3169	1.25 1.25	" " "	
1144	16.7	1.68	7.30	-141.9	3155	2.00 2.0	" " "	

Sample Time: 1150
 Analytical Method: EPA Method 8260 B Field filtered: Y/N

Purge Equipment: Hurricane Bailer Foot Valve Peristaltic Pump
 Sampling Equipment: Hurricane Bailer Foot Valve Peristaltic Pump

Sampler: SEAN MCGUIRE
(print name)

Signature: [Handwritten Signature]



GROUND WATER MONITORING FIELD LOG

Site: Leonard's Conoco
 Project: 3288JV032
 Date: April 26, 2019

Weather Conditions: Cloudy, 15°C
moderate breeze
(gusty)

Well ID: MW-2A
 Sample ID: MW-2A

Well Diameter	
1/4"	<u>(2)</u> 4" 6"

Water Column Data

Depth to NAPL: -
 Depth to Water: 13.16 - rootball
 Depth to Bottom: 19.00
 Water Column Height: 6.84

Well Vol. Conversion

1.25"	0.06 Gal/ft
2"	0.16 Gal/ft
4"	0.65 Gal/ft
6"	1.47 Gal/ft

Well Vol.s

1	1.09
2	2.19
3	3.28

Ground Water Quality Data

Time	Temp (°C)	RDO (mg/L)	pH	ORP (mV)	S. Cond (µS/cm)*	Volume (US Gal)	Observations
1030	15.6	1.13	7.59	193.5	3141	0	Turbid, brown,
1033	15.6	2.43	7.62	122.9	3118	1.25	"
1034	15.6	2.24	7.60	98.4	3083	2.25	"
1038	15.7	2.37	7.60	85.9	3003	3.5	"

Sample Time: 1045

Analytical Method: EPA Method 8260 B

Field filtered: Y/N

Purge Equipment: Hurricane Bailer Foot Valve Peristaltic Pump

Sampling Equipment: Hurricane Bailer Foot Valve Peristaltic Pump

Sampler: SEAN MULLIKEN
(print name)

Signature: *Sean Mulliken*



GROUND WATER MONITORING FIELD LOG

Site: Leonard's Conoco
 Project: 3288JV032
 Date: April 26, 2019

Weather Conditions: Partial Cloud 75°C
gusty (from SW)

Well ID: MW-3
 Sample ID: MW-3

Well Diameter			
1/4"	②	4"	6"

Water Column Data
 Depth to NAPL: -
 Depth to Water: 13.59
 Depth to Bottom: 27.94
 Water Column Height: 14.35

Well Vol. Conversion	
1.25"	0.06 Gal/ft
2"	0.16 Gal/ft
4"	0.65 Gal/ft
6"	1.47 Gal/ft

Well Vol.s	
1	2.30
2	4.59
3	6.89

Ground Water Quality Data

Time	Temp (°C)	RDO (mg/L)	pH	ORP (mV)	S. Cond (µS/cm)*	Volume (US Gal)	Observations
1101	17.5	2.94	7.31	455.5	3520	0	turbid, brown
1106	17.9	2.28	7.31	399.1	3516	2.5	" "
1111	18.3	2.50	7.35	365.4	3490	4.75	" "
1115	18.4	3.20	7.46	344.2	3420 3427	7.0	v. turbid (mud), brown

Sample Time: 1120
 Analytical Method: EPA Method 8260 B

Field filtered: Y/N

Purge Equipment: Hurricane Bailer Foot Valve Peristaltic Pump
 Sampling Equipment: Hurricane Bailer Foot Valve Peristaltic Pump

Sampler: SEAN MORRIS
(print name)

Signature: [Handwritten Signature]

WESTERN TECHNOLOGIES INC.

WT Job No.: 3288JV032

Date: April 26, 2019



Picture 1 – Looking southwest at MW-1A and Santa Rosa Magistrate Court. Former USTs were located in the approximate area marked by the white oval.



Picture 2 - Looking northwest at MW-1A. There was a steep drop-off to adjacent Union Pacific Railroad land north of the Site.



Picture 3 - Looking northeast at MW-1A and the adjacent Mi Casa Laundromat, which was formerly a gas station. The corrugated pipe stickup may be a sewer or septic feature related to the laundromat.



Picture 4 - Looking northwest along eastern Site boundary. Mi Casa Laundromat (former gas station) to right. The corrugated pipe stickup may be a sewer or septic feature related to the laundromat.



Picture 5 – Looking northeast along the northern Site boundary. MW-2A by propane tank. Note the power lines along the northern Site boundary.



Picture 6 – Looking northwest at MW-2A. In the background are the Union Pacific Railroad rail yard and yellow railroad cars.

WESTERN TECHNOLOGIES INC.

WT Job No.: 3288JV032

Date: April 26, 2019



Picture 7 – Looking southwest at MW-3. Santa Rosa Magistrate Court to right. Club Cafe land was a vacant gravelled lot. Only the Club Cafe signage was present.



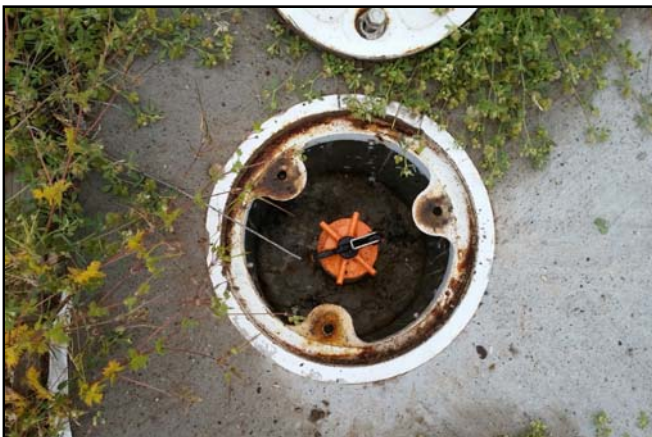
Picture 8 – Looking northwest at MW-3 and Santa Rosa Magistrate Court. Former Leonard's Conoco dispensers may have been in the vicinity of MW-3.



Picture 9 – Looking down MW-1A. Well vault in good condition.



Picture 10 - Looking down MW-2A. Well vault in good condition.



Picture 11 - Looking down MW-3. Well vault in good condition.



Picture 12 – Overall view of Site from the southeast corner.

SURVEYING CONTROL, INC.

131 Madison St., N.E.
Albuquerque, NM 87108
(505) 266-0935
surcon@aol.com

January 25, 2018

Attn: Michael D. McVey, P.G.
Daniel B. Stephens & Associates, Inc.
6020 Academy Road N.E., Ste. 100
Albuquerque, NM 87109

Re: Coordinates & Elevations for Monitor Wells on Leonard's Conoco UST Site at Santa Rosa, New Mexico

Dear Mike:

The following are the coordinates and elevations for the monitor wells on the above referenced site. The coordinates are New Mexico State Plane Coordinates – East Zone, NAD 83 (NSRS 2011), and have been adjusted to the NGS Control Point “Rosaair“. The coordinates below are to the top of the cap inside the outer cover. The elevations are NAVD 88, and have been adjusted to the USC&GS 2nd order benchmark “Santa Rosa” (Published Elevation used for “Santa Rosa” = 4625.63’) The coordinates and elevations are expressed in U.S. Survey Feet.

Well	Northing	Easting	Top PVC Elev.
MW-1A	1434993.06	435933.75	4615.84
MW-2A	1434926.66	435823.76	4613.53
MW-3	1434884.02	435902.44	4615.00

NOTE: The elevations shown above for the top of the PVC were taken on the North edge of the PVC on a black Magic Marker datum point.

Please do not hesitate to call if you have any questions or if you need any additional information.

Sincerely,



Stephen J. Toler, PS



WELL LOG: MW-1A

COMPLETION DATE: OCTOBER 25, 2013

TOTAL WELL DEPTH: 19 FT BGS

PROJECT INFORMATION

LOCATION: LEONARD'S CONOCO
ADDRESS: 603 PARKER AVE, SANTA ROSA, NM
GEOLOGIST: TIMOTHY M. HALLER, CPG
DRILLER: RODGERS ENVIRONMENTAL
DRILL METHOD: 7-5/8" HOLLOW-STEM AUGERS
SAMPLE TYPE: SPLIT SPOONS

CONSTRUCTION DETAILS

CASING ELEVATION: 4616.02 FT MSL
SCREEN INTERVAL: 9-19 FT BGS
BENTONITE INTERVAL: 5-7 FT BGS
SANDPACK INTERVAL: 7-19 FT BGS
CASING TYPE: 2" ID PVC
SCREEN SIZE: 0.020" SLOTS

NOTES: MW-1A DRILLED 9.9 FEET SOUTH OF MW-1

DEPTH (FEET)	INTERVAL	SAMPLE ID	PID (PPM-V)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	WELL DIAGRAM	DEPTH (FEET)
0				CONCRETE SLAB PAVEMENT			0
				BASE COURSE / GRAVEL			
				BROWN AND OLIVE GRAVELLY CLAY (CL); firm, slightly moist, low plasticity, mixed brown and olive clay with sandstone shards and limestone gravel; appears to be fill, no staining or odor.			
5			9.2	BROWN SILTY SANDY CLAY (CL); firm, slightly moist, low plasticity, no staining or odor.			5
10	MW-1A 9-11'		274	GRAY SILTY CLAYEY SAND (SC); loose, wet at approximately 13 feet, fine grained, very silty/clayey, black staining at 8 feet and gray staining below, old petroleum odor.			10
15	MW-1A 14-16		4,807	LIGHT GRAY SANDY CLAY (CL); soft, wet, low plasticity, very sandy, caliche granules, old petroleum odor.			15
20				STATIC DTW = 13.96 FT BTOC ON OCTOBER 30, 2013			20