

April 16, 2015

#3423555

Ms. Sarah McGrath, Project Manager New Mexico Environment Department Petroleum Storage Tank Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505

RE: Groundwater Monitoring Report, Conoco Mini-Mart UST Site, 3837 US Highway 64, Chama, New Mexico Facility # 27498 RID # 2316 WPID # 3791-1

Dear Ms. McGrath:

Souder, Miller & Associates (SMA) is pleased to submit the attached Groundwater Monitoring Report for the above referenced site. The enclosed report completes the only deliverable associated with the work plan and cost schedule dated October 20, 2014, approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on November 18, 2014 (WPID #3791-1). SMA requested a time extension for weather related delays on January 12, 2015. The Petroleum Storage Tank Bureau (PSTB) approved a 90 day extension on February 9, 2015. This report was prepared pursuant to the contract between SMA and the New Mexico Environment Department (contract number 14-667-2000-0033).

The deliverable represents a reduced scope of work. One monitoring well was destroyed and could not be sampled. Another monitoring well was accidentally missed by SMA field staff, therefore, SMA has discounted the invoice amount for laboratory costs not incurred and locating, gauging and sampling costs of the mistaken well, for a total amount of **<u>\$6,284.22</u>**.

If you have any questions, please do not hesitate to call me at 505-299-0942 or to e-mail me at matthew.earthman@soudermiller.com.

Sincerely, Souder, MILLER AND ASSOCIATES

Matthew A. Earthman, P.G. Project Geoscientist

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Cover Page Form 1216 Quarterly Groundwater Monitoring Report

- 1. Site Name: Conoco Mini-Mart UST Release Site
- 2. **Responsible party:** State Lead Site
- Responsible party mailing address (list contact person if different): Ms. Sarah McGrath New Mexico Environment Department Petroleum Storage Tank Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505
- 4. Facility Number: Facility #: 27498 RID #: 2316
- 5. Address/legal description: 3837 Highway 64 Chama, New Mexico 87520
- 6. Author/consulting company: Matthew Earthman, P.G. – Souder, Miller & Associates
- 7. Date of report: April 16, 2015
- 8. Date of confirmation of release or date PSTB was notified of release: A release was confirmed at the Conoco Mini-Mart on May 16, 1994.



Statement of Familiarity

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

Signature:

Name: Matthew Earthman, P.G. Affiliation: Souder, Miller & Associates Title: Project Geoscientist Date: April 16, 2015

SMA

1.0 Introduction

A. Scope of Work

Souder, Miller and Associates (SMA) is pleased to submit the following report detailing groundwater monitoring at the Conoco Mini-Mart UST release site located at 3837 Highway 64 in Chama, New Mexico. This report is submitted pursuant to the work plan and cost schedule dated October 20, 2014 and approved by the NMED PSTB on November 18, 2014 (WPID #3791-1). SMA requested a time extension for weather related delays on January 12, 2015. The Petroleum Storage Tank Bureau (PSTB) approved a 90 day extension on February 9, 2015. This report was prepared pursuant to the contract between SMA and the New Mexico Environment Department (contract number 14-667-2000-0033). This report constitutes the only deliverable associated with the current work plan and is the first groundwater monitoring event conducted at the site since April, 2010.

1.2 Monitoring Event's Highlights

Groundwater monitoring was performed at the site on March 24, 2015. Four of the five existing site wells were checked for the presence of NAPL, gauged for depth to water, and sampled for laboratory analysis of the groundwater by EPA Method 8260. Groundwater monitoring well MW-6 has been destroyed since the previous groundwater monitoring event in April, 2010. It was likely scraped off by snow removal activities. MW-9 was seen at the site and appeared to be in good condition but was not sampled because the field tech incorrectly believed MW-9 had already been plugged and abandon. No NAPL was detected in any well. The average groundwater elevation at the Conoco Mini-Mart site has decreased by 1.08 feet relative to the previous gauging event conducted in April, 2010.

Total naphthalenes were detected above the New Mexico Water Quality Control Commission Regulations (NMWQCCR) standard ($30 \mu g/L$) in monitoring well MW-7 at a concentration of 105 $\mu g/L$. Ethylbenzene (170 $\mu g/L$) and total xylenes (390 $\mu g/L$) were also detected in monitoring well MW-7 above the laboratory reporting limit (RL) but below applicable NMWQCCR standards. Total xylenes (18 $\mu g/L$) and total naphthalenes (4.8 $\mu g/L$) were detected in monitoring well MW-8 above the RL but below applicable NMWQCCR standards. No constituents were detected above the RL in monitoring wells MW-11 or MW-12.



2.0 Site Background

Historical files report that the owner of the adjoining property to the south of the Conoco Mini-Mart had complained of gasoline odors in the basement sometime in the 1970's. A 1989 "Environmental Evaluation" performed by Sergent, Hauskins & Beckwith included the drilling of four exploratory soil borings and groundwater sampling from three of the four soil borings. Depths to groundwater at the soil boring locations ranged from 9 to 13 feet below ground surface (bgs). The groundwater samples were submitted to an analytical laboratory for analysis. The sum of benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations in the groundwater samples ranged from 71 μ g/L to 17,500 μ g/L. Methyl tert-butyl ether (MTBE) was also identified in groundwater, while 1,2-dibromoethane (EDB) and 1,2-dichchloroethane were not. A sheen was also noted on purged groundwater at two of the sampling locations. Groundwater flow was estimated by Sergent, Hauskins & Beckwith to be in a south-southeasterly direction.

The NMED PSTB contracted with INTERA in January, 2005 to perform soil boring and monitoring well installation at the site in an attempt to determine the extent of on-site contamination and to determine the location of USTs remaining on site. The 1994 PSTB inspection records indicated the existence of two abandon USTs, one filled with water and one with several inches of petroleum product. Pumps and dispensers had apparently been removed. Analytical results for the subsurface soils located immediately south of the USTs showed concentrations of contaminants of concern (COC) to be above PSTB Tier 1 Soil Concentrations Protective of Groundwater. Eight groundwater monitoring wells were installed. Groundwater analytical results showed concentrations of COC to be above NMWQCCR standards in monitoring wells MW-1, MW-2, MW-5, MW-7, and MW-8.

INTERA reported that two USTs were present in the northern portion of the property. Real estate contract records show that three storage tanks were present at the site when the former owner, Diamond J. Oil Company, purchased the property. Based on the contaminant levels in the soil on the south side of the property, the third UST is suspected to be located along the south side of the former gas station building. It was recommended that the three USTs be located and removed.

The analytical results from the 2005 INTERA Site Assessment show that the groundwater contamination has migrated off site and that the groundwater gradient is south-southwest.

SMA was contracted by the NMED PSTB in January, 2006 to complete a site assessment and other necessary work at the Conoco Mini-Mart release site. Following the site assessment, SMA removed three USTs and excavated a total of 1,060 cubic yards of contaminated soil in December, 2006. Five site monitoring wells (MW-9, MW-10, MW-11, MW-12, and MW-13) were installed from March 27-29, 2007 after the remedial excavation was completed. Existing site monitoring wells MW-1 and MW-2 were destroyed during the remedial excavation activities.



SMA completed the first quarterly ground water monitoring of the subject site on April 4, 2007. Contaminants of concern (COC) were above NMWQCCR standards in monitoring wells MW-5, MW-7, MW-8, MW-11, MW-12, and MW-13. Five additional monitoring events were completed between 2007 and 2009, and in October, 2009, monitoring well MW-13 was plugged and abandoned.

During the most recent groundwater monitoring event in April, 2010, SMA plugged and abandoned an additional four site monitoring wells (MW-3, MW-4, MW-5, and MW-10). Following well decommission, SMA also conducted a groundwater monitoring event of the six (6) existing site wells (MW-6, MW-7, MW-8, MW-9, MW-11, and MW-12). Concentrations of benzene, total xylenes, and total naphthalenes continued to exceed the applicable NMWQCCR standard in monitoring well MW-7. Monitoring well MW-12 also contained total xylenes and total naphthalenes above the applicable NMWQCCR standard.

3.0 Completed Tasks

3.0.1 Brief description of remediation system and date installed.

Not applicable, no remediation system has been installed.

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

Not applicable

3.1 Volatile Organic Hydrocarbon Monitoring

Four of the five existing site monitoring wells (MW-7, MW-8, MW-11, and MW-12) at the Conoco Mini-Mart site in Chama, New Mexico were sampled on March 24, 2015 and analyzed for volatile organic hydrocarbon COCs by Environmental Protection Agency (EPA) Method 8260. Figure 1 illustrates the location of the monitoring wells. Figure 2 illustrates the groundwater gradient and direction. Figure 3 illustrates contaminant concentrations. Current and previous analytical results are provided in Table 1. A summary of groundwater level measurements are provided in Table 4. Procedures for sampling the monitoring wells are described in Appendix 1. Field Notes are included in Appendix 2. Laboratory analytical results are included in Appendix 3.



Monitoring well MW-6, located on the eastern edge of the property and down gradient from the tank pits, was not located. SMA field personnel used a metal detector, digging bar, and the survey coordinates to attempt to locate the well. The well was likely destroyed during snow removal activities along Highway 64.

Groundwater monitoring well MW-7, is located down gradient of the tank pits. Total naphthalenes (105 μ g/L) were detected above NMWQCCR standards. Ethylbenzene (170 μ g/L) and total xylenes (390 μ g/L) were also detected above the RL but below applicable NMWQCCR standards.

Groundwater from MW-8, located cross gradient from the former tank pits, contained total xylenes (18 μ g/L) and total naphthalenes (4.8 μ g/L) above the RL but below applicable NMWQCCR standards.

Groundwater from MW-11, located down gradient from the northern tank pit and cross gradient from the southern tank pit did not contain any hydrocarbon COCs above the laboratory RL.

Groundwater from MW-12, located cross gradient from the northern tank pit and up gradient from the southern tank pit did not contain any hydrocarbon COCs above the laboratory RL.

Due to a misunderstanding, SMA field personnel incorrectly believed that MW-9 had been plugged and abandoned and MW-13 was supposed to be sampled during this event. SMA field personnel did see MW-9, but mistook it for utility access associated with the nearby business. The well appeared to be in good condition and will be sampled during future events.

3.2 Dissolved Metals Monitoring

Not applicable

3.3 Groundwater Measurements

Depths to groundwater were measured in four of the five site monitoring wells (MW-6, MW-7, MW-11, and MW-12) on March 24, 2015. The average depth to water in the wells was 4.83 feet, which represents a 1.08 foot decrease since the wells were last gauged on April 6, 2010. Figure 2 is a potentiometric surface map of the Chama Conoco Mini-Mart UST Release site.

Groundwater flow direction, based on groundwater elevation data of the five site monitoring wells, is to the southwest at a gradient of 0.015 feet per foot. The groundwater gradient is slightly shallower and is generally consistent with what was calculated during the previous gauging event in April, 2010.



4.0 SUMMARY AND CONCLUSIONS

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

Total naphthalenes were detected above the NMWQCCR standard in monitoring well MW-7. Monitoring wells MW-7 and MW-8 also contained ethylbenzene and total xylenes above the RL but below the applicable NMWQCCR standards. The destruction of MW-6 since the previous monitoring event in April, 2010 is not likely to have a significant impact on tracking future contamination plumes. Groundwater monitoring data for MW-6 shows the most recent detection was of total xylenes $(0.87 \ \mu g/L)$ in April, 2007. All monitoring wells on site have improved significantly in quality since the previous monitoring event in April, 2010.

4.2 Ongoing assessment of remediation system.

Not applicable, no remediation system has been installed

4.3 Recommendations.

The March, 2015 monitoring event is the third groundwater monitoring event to analyze for volatile organic hydrocarbon COCs by EPA Method 8260. All previous monitoring events used EPA Method 8021 for hydrocarbon COCs and EPA Method 8310 for total naphthalenes. Although EPA method 8260 is slightly more expensive, it analyzes for EDC, EDB, and total naphthalenes, while Method 8021 does not. From July, 2005 to October, 2009 there are no records of EDC or EDB concentrations in any well at the Conoco Mini-Mart Site. The three most recent groundwater monitoring events using method 8260 have not detected EDC or EDB above the RL. SMA recommends using EPA Method 504.1 to detect EDB at concentrations at or below the NMWQCCR standards and analyzing for dissolved metals (iron, manganese, and lead) using method EPA Method 6010. This would allow SMA and the PSTB to assess the full extent of natural attenuation occurring on site.

Figures

- 1. Site Map
- 2. Potentiometric Surface Map
- 3. Groundwater Contaminant Concentration Map

Tables

- 1. Summary of Groundwater Analytical Results
- 4. Depth to Water Measurements

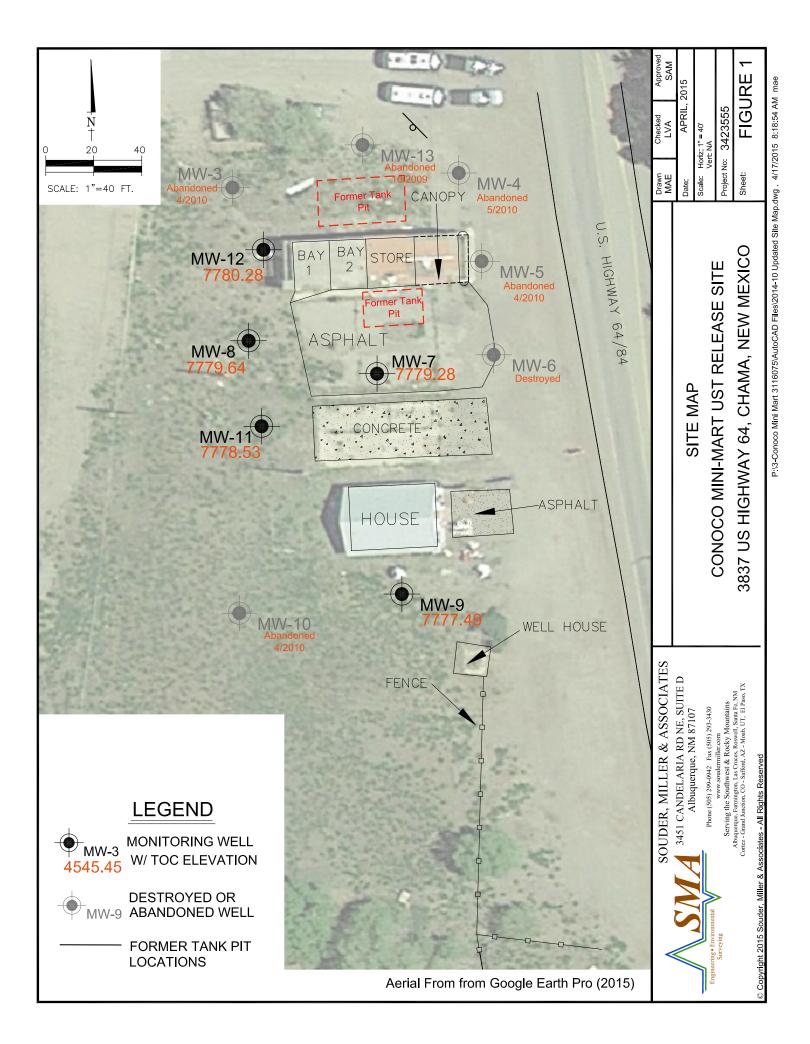
Appendices

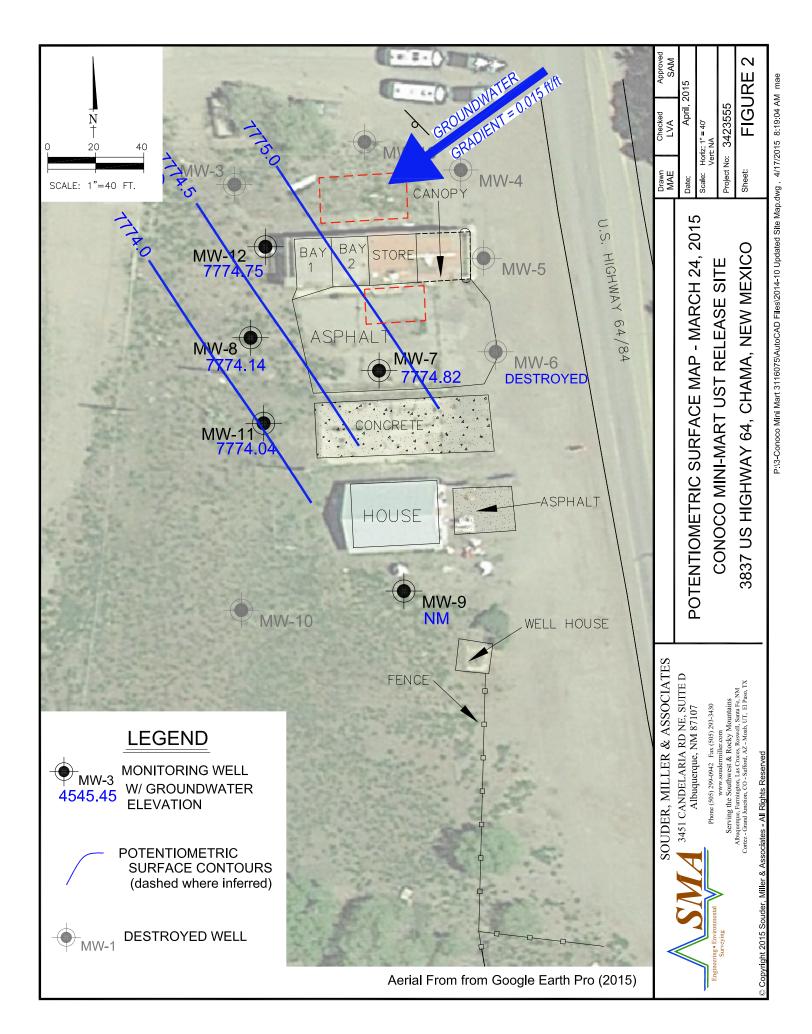
- 1. Sampling protocol
- 2. Field Notes/Copies
- 3. Laboratory Results

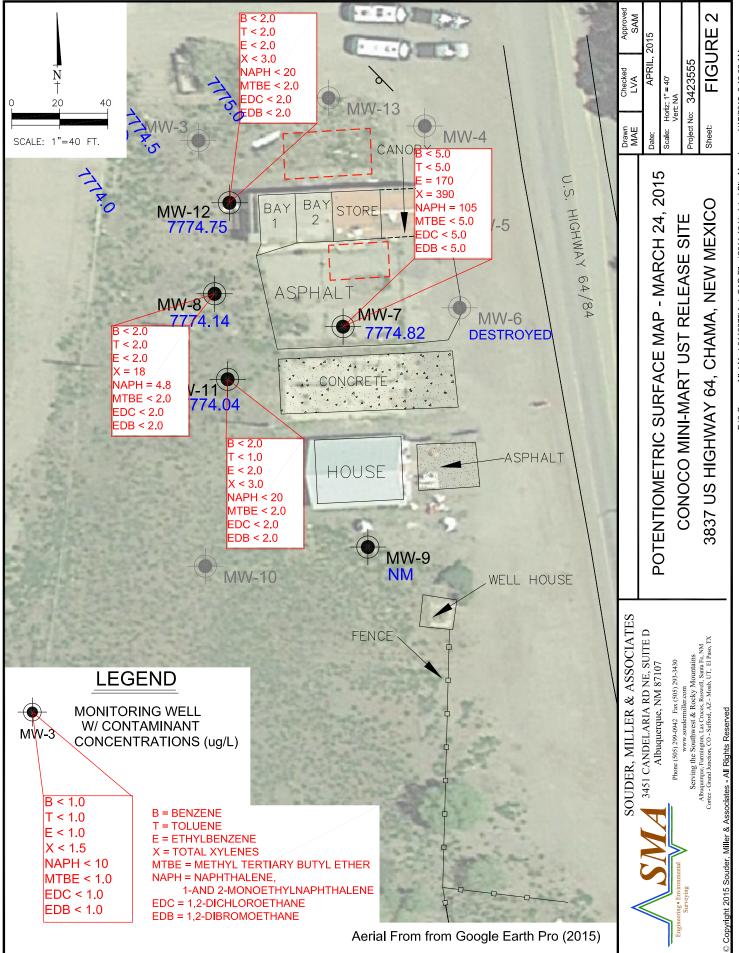


Figures









P-i3-Conoco Mini Mart 3116075/AutoCAD Files/2014-10 Updated Site Map.dwg,4/17/2015 8:19:06 AM mae

Tables



Table 1	
Summary of Groundwater A	nalytical Results
Chama Conoco Mini Mart, 3837 Highwa	
Facility # 27498	RID #2316

				- Me	ethod 8260					Method 6010		
MW #	Date	174 9.0 357 418 11.5 NA NA 620° NA 10 750 750 620 100 10 0.1 30 0.05 Method 8260 Mothod 6010 Benzene Total benzene benzene MTBE benzene Xylenes EDC EDB Total Naphthalenes Lead <1.0 <1.0 <1.0 <1.0 <1.0 NA NA NA <0.5 <0.5 <1.0 <1.0 NA NA NA NA <0.5 <0.5 <1.0 <1.0 NA NA NA NA <0.5 <0.5 <1.0 <1.0 NA NA NA NA NA NA NA </th										
	07/08/05 ^{INT}	58	2.1			<1.0	NA	NA		NA		
MW-1 MW-2 MW-2 MW-2 MW-2 MW-2 MW-2 MW-3	07/10/06*	5.8	<0.5	17.9	13.2	<1.0	NA	NA	1.57°	NA		
	04/04/07				DESTROY	ED DURIN	IG TANK I	PULL	L	•		
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05		
				Me	ethod 8260					Method 6010		
MW #	Date	Benzene	Toluene			MTBE	EDC	EDB		Lead		
	07/08/05 ^{INT}	290	32.0			<5.0	NA	NA		NA		
MW-2	07/10/06*	174	9.0	357	418	11.5	NA	NA	620°	NA		
	04/04/07		DESTROYED DURING TANK PULL									
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05		
				Me	ethod 8260					Method 6010		
MW #	Date	Benzene	Toluene	Ethyl-	Total	MTBE	EDC	EDB				
	07/08/05 ^{INT}	<1.0	<1.0	<1.0		<1.0	NA	NA		NA		
	07/10/06*											
	04/04/07				UN	ABLE TO I	LOCATE					
MW-3	10/25/07					NOT SAM	PLED					
	04/01/08					NOT SAM	PLED					
101 00-3	06/27/08					NOT SAM	PLED					
	10/01/08	NOT SAMPLED										
	06/01/09	NOT SAMPLED										
	10/14/09				WELL D	AMAGED,	NO SAMP	LE				
	04/05/10	WELL PLUG & ABANDON										
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05		
010												
MW #			r			1	1	1	Total	Method 6010		
	Date	Benzene	Toluene			MTBE	EDC	EDB		Lead		
	07/08/05 ^{INT}	<1.0	<1.0	<1.0		<1.0	NA	NA		NA		
	07/10/06*	<0.5	<0.5	<0.5	<1.0	<1.0	NA	NA	<1.0°	NA		
	04/04/07*	<2.5	<2.5	<2.5	<5.0	<5.0	NA	NA	<1.0°	<0.009		
	10/25/07					NOT SAM	PLED					
MW-4	04/01/08					NOT SAM	PLED					
IVI VV-4	06/27/08					NOT SAM	PLED					
	10/01/08					NOT SAM	PLED					
	06/01/09					NOT SAM	PLED					
	10/14/09	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	<4.0	NA		
	04/06/10	WELL PLUG & ABANDON										
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05		

Table 1Summary of Groundwater Analytical ResultsChama Conoco Mini Mart, 3837 Highway 64, Chama, New MexicoFacility # 27498RID #2316

				M	ethod 8260					Method 6010			
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Lead			
	07/08/05 ^{INT}	<1.0	4.8	210	940	<1.0	NA	NA	NA	NA			
	07/10/06*	<0.5	1.9	142	256	1.7	NA	NA	97 °	NA			
	04/04/07*	1.9	0.49	195	283	<1.0	NA	NA	105°	<0.009			
	10/25/07					NOT SAMP	PLED						
MW-5	04/01/08					NOT SAMP	PLED						
101 00-5	06/27/08					NOT SAMP	PLED						
	10/01/08					NOT SAME	PLED						
	06/01/09					NOT SAMP	PLED						
	10/14/09					NOT SAMP	PLED						
	04/05/10	WELL PLUG & ABANDON											
	CR/NMPSTR 10 750 750 620 100 10 0.1 30												
MW #	Method 8260								Method 6010				
	Date	Benzene	Toluene	benzene	Xylenes	MTBE	EDC	EDB	Naphthalenes	Lead			
	07/08/05 ^{INT}	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA			
- MW-6	07/10/06*	<0.5	<0.5	<0.5	<1.0	<1.0	NA	NA	<1.0°	NA			
	04/04/07*	<2.5	<2.5	<2.5	0.87	<5.0	NA	NA	<1.0°	<0.009			
	10/25/07*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<6.0°	NA			
	04/01/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<2.0°	NA			
	06/27/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<2.0°	NA			
	10/01/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<2.5°	NA			
	06/01/09*	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA			
	10/14/09	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	<4.0	NA			
	04/06/10	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	<4.0	NA			
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05			
MW #	Date	Benzene	Toluene	Ethyl- benzene	ethod 8260 Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Method 6010 Lead			
	07/08/05 ^{INT}	700	86	530	1300	<10	NA	NA	NA	NA			
	07/10/06*	50	22	399	1264	18	NA	NA	428 °	NA			
	04/04/07*	63	12	508	1655	23	NA	NA	489°	< 0.009			
	10/25/07*	36	19	480	1400	<25	NA	NA	220°	NA			
		48	18	530	1500	<25	NA	NA	326°	NA			
MW-7	04/01/08* 06/27/08*	49	17	680	2500	<25	NA	NA	163°	NA			
		44	15	590	1500	<25	NA	NA	348°	NA			
	10/01/08*	44	16	550	1500	<10	NA	NA	348 NA	NA			
	06/01/09*	32	14	610	1400	<5.0	NA	NA	560	NA			
	10/14/09	28	14	600	1400	<5.0	NA	NA	629	NA			
	04/06/10	20 <5.0	<5.0	170	390	<5.0	NA <5.0	<5.0	105	NA			
	03/24/15 CR/NMPSTR	<0.0	<٥.0	170	290	<0.0	<0.0	<0.0	00	INA			
	ndards	10	750	750	620	100	10	0.1	30	0.05			

Table 1Summary of Groundwater Analytical ResultsChama Conoco Mini Mart, 3837 Highway 64, Chama, New MexicoFacility # 27498RID #2316

				Me	ethod 8260					Method 6010				
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Lead				
	07/08/05 ^{INT}	49	42	600	1600	<10	NA	NA	NA	NA				
	07/10/06*	76	3.7	425	503	44	NA	NA	74 °	NA				
	04/04/07*	50	8.0	570	1127	81	NA	NA	234 °	<0.018				
	10/25/07		NOT SAMPLED											
	04/01/08		NOT SAMPLED											
MW-8	06/27/08		NOT SAMPLED											
	10/01/08					NOT SAMP	PLED							
	06/01/09*	4.6 <1.0 34 10 <1.0 NA NA NA							NA					
	10/14/09	2.7	<1.0	1.8	<1.5	<1.0	NA	NA	<4.0	NA				
	04/06/10	7.9	1.6	180	180	<1.0	NA	NA	<4.0	NA				
	03/24/15	<2.0	<2.0	<2.0	18	<2.0	<2.0	<2.0	4.8	NA				
	CR/NMPSTR andards	10	750	750	620	100	10	0.1	30	0.05				

				Me	ethod 8260					Method 6010
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Lead
	04/04/07*	<2.5	<2.5	<2.5	<5.0	<5.0	NA	NA	<1.0°	<0.009
	10/25/07*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<6.0°	NA
	04/01/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<2.0°	NA
	06/27/08*	8.2	3.9	50	<2.0	<2.5	NA	NA	5.0°	NA
MW-9	10/01/08*	11	7.5	58	61	<2.5	NA	NA	<10 [°]	NA
	06/01/09*	<1.0	<1.0	1.8	1.7	<1.0	NA	NA	NA	NA
	10/14/09	7.9	9.2	56	57	<1.0	NA	NA	19	NA
	04/06/10	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	<4.0	NA
	03/24/15					WELL MIS	SED			
	CR/NMPSTR Indards	10	750	750	620	100	10	0.1	30	0.05

				Me	ethod 8260					Method 6010		
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ	EDC	EDB	Total Naphthalenes	Lead		
	04/04/07*	<2.5	<2.5	<2.5	<5.0	<5.0	NA	NA	<1.0°	<0.009		
	10/25/07*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<6.0°	NA		
	04/01/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<2.0°	NA		
MW-10	06/27/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	5.0°	NA		
14144-10	10/01/08*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	<10°	NA		
	06/01/09*	<1.0	<1.0	<1.0	<2.0	<2.5	NA	NA	NA	NA		
	10/14/09	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	<4.0	NA		
	04/05/10		WELL PLUG & ABANDON									
	/QCCR/NMPSTR 10 750 750 620 100 10 0.1 30						0.05					

Table 1	
Summary of Groundwater	Analytical Results
Chama Conoco Mini Mart, 3837 High	way 64, Chama, New Mexico
Facility # 27498	RID #2316

				M	ethod 8260					Method 6010
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Lead
	04/04/07*	31	16.1	138	71	<5.0	NA	NA	53 °	<0.009
	10/25/07*	21	5.4	280	13	17	NA	NA	15°	NA
	04/01/08*	11	<1.0	24	9.1	<2.5	NA	NA	3.1°	NA
	06/27/08*	18	<1.0	130	8.8	<2.5	NA	NA	5.5°	NA
MW-11	10/01/08*	9.2	<1.0	47	5.2	<2.5	NA	NA	<2.5°	NA
	06/01/09	10.0	<1.0	24	5.0	<1.0	NA	NA	<2.0	NA
	10/14/09	5.6	<1.0	21	6.4	<1.0	NA	NA	<4.0	NA
	04/06/10	1.1	<1.0	2.1	4.4	<1.0	NA	NA	<4.0	NA
	03/24/15	<2.0	<1.0	<2.0	<3.0	<2.0	<2.0	<2.0	<20	NA
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05
				M	ethod 8260					Method 6010
MW #	Date	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	EDC	EDB	Total Naphthalenes	Lead
	04/04/07*	10.9	<2.5	44	129	<5.0	NA	NA	40 °	<0.009
	10/25/07*	1.9	<1.0	35	76	2.7	NA	NA	2.1°	NA
MW 40	04/01/08*	3.2	11	150	750	2.5	NA	NA	12 [°]	NA
	06/27/08*	<1.0	1.2	78	420	2.5	NA	NA	62°	NA
MW-12	10/01/08*	<1.0	<1.0	12	32	<2.5	NA	NA	<10 [°]	NA
	06/01/09*	<5.0	<5.0	69	200	<5.0	NA	NA	NA	NA
	10/14/2009	<1.0	<1.0	1.8	<1.5	<1.0	NA	NA	<4.0	NA
	4/6/2010	<1.0	5.4	280	1100	<1.0	NA	NA	146	NA
	03/24/15	<2.0	<2.0	<2.0	<3.0	<3.0	<2.0	<2.0	<20	NA
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05
					- (h) 0000					
MW #	Date	Benzene	Toluene	Ethyl- benzene	ethod 8260 Total Xylenes	МТВЕ	EDC	EDB	Total Naphthalenes	Method 6010 Lead
	04/04/07*	20	8.4	193	381	20	NA	NA	70 °	<0.009
	10/25/07*	1.7	<1.0	36	13	<2.5	NA	NA	2.2°	NA
	04/01/08*	1.6	<1.0	32	89	<2.5	NA	NA	<2.0°	NA
MW-13	06/27/08*	1.5	<1.0	47	16	<2.5	NA	NA	13°	NA
	10/01/08*	1.2	<1.0	21	<2.0	<2.5	NA	NA	<2.5°	NA
	06/01/09				UN	ABLE TO I	LOCATE	1	-	1
	10/14/09				WELL	PLUG &	ABANDON	I		
	CR/NMPSTR ndards	10	750	750	620	100	10	0.1	30	0.05

Notes:

* = Data analyzed by Method 8021, results in $\mu g/L$ ° = Total Naphthalenes analyzed by Method 8310, results in $\mu g/L$ Method 8260 results in $\mu g/L$; Method 6010 results in mg/L MTBE = Methyl Tertiary Butyl Ether Red indicates concentration exceeds standard NA Analyzed

NA = Not Analyzed $7/8/2005^{INT}$ Indicates data adopted from Intera report dated 9/7/2005



			07/0	8/05	07/1	0/06	04/0	4/07	10/2	5/07	04/0	1/08
MW #	TOC Elev.	Total Well Depth	Depth to Water	Water Elev.	Depth to Water	Water Elev.	Depth to Water	Water Elev.	Depth to Water	Water Elev.	Depth to Water	Water Elev.
MW-1 *	7780.17	15.0	5.74 7774.43 5.26 7774.91						Dest	royed		
MW-2 *	7779.97	15.0	6.01	7773.96	5.78	7774.19			Dest	royed		
MW-3 *	7780.16	15.5	5.76	7774.40	6.21	7773.95	Not Lo	ocated	Not Me	easured	Not Me	asured
MW-4 *	7779.55	15.5	4.40	7775.15	4.58	7774.97	Not Me	easured	Not Me	easured	Not Me	easured
MW-5 *	7779.02	15.0	5.76 7773.26 5.93 7773.09				Not Me	easured	Not Measured		Not Measured	
MW-6 *	7778.61	12.0	5.63	7772.98	5.90	7772.71	3.74	7774.87	5.31	7773.30	2.40	7776.21
MW-7 *	7779.28	12.5	6.84	7772.44	6.59	7772.69	4.79	7774.49	7.33	7771.95	3.61	7775.67
MW-8 *	7779.64	15.0	7.76	7771.88	7.91	7771.73	6.71	7772.93	Not Me	easured	Not Me	easured
MW-9	7777.49	11.3					4.92	7772.57	7.26	7770.23	3.23	7774.26
MW-10	7777.61	13.3					4.88	7772.73	6.75	7770.86	2.68	7774.93
MW-11	7778.53	12.0	Wells I	nstalled M	larch 27-29	9, 2007	4.74	7773.79	7.83	7770.70	3.04	7775.49
MW-12	7780.28	13.5					5.75	7774.53	7.60	7772.68	3.93	7776.35
MW-13	7780.47	13.5					5.99	7774.48	7.57	7772.90	3.54	7776.93
A	verage DT	W	5.9	99	6.	02	5.	19	7.	09	3.	20

Table 4 Depth to Water MeasurementsChama Conoco Mini Mart UST Release Site, 3837 Highway 64, Chama, New MexicoFacility # 27498RID #2316

MW-X * Indicates a monitoring well that was installed and surveyed under contracted by Interra in January, 2005. Monitoring wells MW-9, MW-10, MW-11, MW-12, and MW-13 were installed and surveyed by SMA in March, 2007. All top of casing elevations taken from October, 2008 SMA Groundwater Monitoring Report. All measurements in feet

			06/2	7/08	10/0	1/08	06/0	1/09	10/1	4/09	04/0	6/10
MW #	TOC Elev.	Total Well Depth	Depth to Water	Water Elev.								
MW-4 *	7779.55	15.5	Not Me	asured		asured	Not Me	asured	4.64	7774.91	Plugged &	Abandon
MW-5 *	7779.02	15.0	Not Me	asured	Not Me	asured	Not Me	easured	5.08	7773.94	Plugged &	& Abandon
MW-6 *	7778.61	12.0	5.22	7773.39	5.65	7772.96	4.81	7773.80	5.82	7772.79	2.61	7776.00
MW-7 *	7779.28	12.5	6.96	7772.32	7.83	7771.45	6.41	7772.87	8.01	7771.27	4.09	7775.19
MW-8 *	7779.64	15.0	Not Me	asured	Not Me	asured	7.15	7772.49	8.56	7771.08	4.64	7775.00
MW-9	7777.49	11.3	6.95	7770.54	7.72	7769.77	6.23	7771.26	8.21	7769.28	3.69	7775.95
MW-10	7777.61	13.3	6.51	7771.10	7.06	7770.55	5.83	7771.78	7.60	7770.01	Plugged &	Abandon
MW-11	7778.53	12.0	6.76	7771.77	7.31	7771.22	6.19	7772.34	7.82	7770.71	3.69	7774.84
MW-12	7780.28	13.5	7.38	7772.90	7.81	7772.47	6.98	7773.30	8.03	7772.25	4.65	7775.63
MW-13	7780.47	13.5	7.10	7773.37	7.69	7772.78	Not Lo	ocated		Plugged &	& Abandon	
A	verage DT	W	6.	70	7.3	30	6.	23	7.	72	3.	75

Table 4 Depth to Water MeasurementsChama Conoco Mini Mart UST Release Site, 3837 Highway 64, Chama, New MexicoFacility # 27498RID #2316

MW-X * Indicates a monitoring well that was installed and surveyed under contracted by Interra in January, 2005.

Monitoring wells MW-9, MW-10, MW-11, MW-12, and MW-13 were installed and surveyed by SMA in March, 2007.

All top of casing elevations taken from October, 2008 SMA Groundwater Monitoring Report.

SMA Plugged and Abandon MW-3, MW-4, MW-5 and MW-10 in April, 2010.

All measurements in feet

Table 4 Depth to Water MeasurementsChama Conoco Mini Mart UST Release Site, 3837 Highway 64, Chama, New MexicoFacility # 27498RID #2316

			03/2	4/15		
MW #	TOC Elev.	Total Well Depth	Depth to Water	Water Elev.		
MW-6 *	7778.61	12.0	Destroyed			
MW-7 *	7779.28	12.5	4.46	7774.82		
MW-8 *	7779.64	15.0	5.50	7774.14		
MW-9	7777.49	11.3	Not Me	asured		
MW-11	7778.53	12.0	4.49	7774.04		
MW-12	7780.28	13.5	5.53	7774.75		
A	verage DT	4.	83			

MW-X * Indicates a monitoring well that was installed and surveyed under contracted by Interra in January, 2005. Monitoring wells MW-9, MW-10, MW-11, MW-12, and MW-13 were installed and surveyed by SMA in March, 2007. All top of casing elevations taken from October, 2008 SMA Groundwater Monitoring Report. SMA Plugged and Abandon MW-3, MW-4, MW-5 and MW-10 in April, 2010. All measurements in feet Appendix 1

Sampling Protocol



Groundwater samples were collected as established in the New Mexico Underground Storage Tank Bureau Guidelines for Corrective Action promulgated March 2000.

Water levels were measured prior to sample collection using a clean water level probe beginning with least contaminated, or clean monitoring wells to the most contaminated monitoring wells. Water levels of each monitoring well were recorded on a field form or in the field notebook. The water level probe was rinsed with distilled water prior to measuring the water level in each monitoring well. A cleaned oil/water interface probe was used to measure fluid levels in wells suspected to have NAPL.

Monitoring wells were purged of three well bore volumes, until water quality parameters stabilized, or until the well went dry prior to sampling. Using clean gloves and disposable bailers, ground water samples to be analyzed using EPA Method 8260 were collected in 40-ml vials preserved with mercuric chloride. All samples were labeled with the date, time, site and sample identification, the initials of the sampler, and the desired laboratory analysis. The samples were then stored on ice in a cooler for shipment to the analytical laboratory.

Sample ID were recorded on chain of custody forms prior to delivery to Hall Environmental Analysis Laboratory.



Appendix 2

Field Notes, Copies



Chama Mini-Mart UST Release Site, 3837 Highway 64

1

1

17*

SMA Job # 3423555

Date: <u>3-2</u>	-15 Time Time On-site: 100 Off-site: Sampled by: Lawa Van A1st	
Weather conditions:	Sunny. 45°	
Equipment Used:	Metal detector, well sounder, plastic bailers.	

F		Monitoring Well Data									
t	MW	MW Tet			Gallons						
1	lD	Depth	DTW	to purge	purged	Time	Remarks				
#1	MW-6	11.5					could not locate (no detection from metal) presumed destroyed detector)				
5	MW-7	12.2	4.46	3.75	3.75	1245	water cloudy black wi mild He oder and Very light sheen.				
5	MW-8	15 /	5.50	4.75	4.75	1230	water black we no odor				
4	MW-11	1 7. 5	4,49	3,50	4.0	1210	watts mutdy trawn in no adar				
2	MW-12	13. ©	5,53	3.75	3.75	1146	water black will no odor				
3	MW-13		~~~~~				could no locate (no detection from metal Resured dostroyed Letector)				

Notes: Sample for 8260B

50

12

Chain-of-Custo	dy Record	Turn-Around 1	Time:									ТВ						
Client: Soudes Mill		Floject Name.			HALL ENVIRONMENTAL ANALYSIS LABORATORY													
Mailing Address: 2451	Candeloria	Chama Conoco Mini-Mort			4901 Hawkins NE - Albuquerque, NM 87109													
Blud, NE Juite	D	Project #:	005-		Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
	9-0942		2355	2		5	â	Ť		naly		Requ	uest					
email or Fax#: QA/QC Package: `⊠ Standard □ Le	evel 4 (Full Validation)	Project Manager: Scott McKitrick			3's (8021)	TPH (Gas only)	/ DRO / MRO)		SIMS)		,PO4,SO	2 PCB's	1					
Accreditation		Sampler: La		n Alst	+ TMB's	+ TPH	RO / DI	504.1)		(0	0 ₃ ,NO ₂	s / 8082		(AC				or N)
EDD (Type)		Sample Temp	perature:	1,5°C	MTBE	MTBE	B (G	pod 5	10 or	letals	Cľ	icide	(Y)	ni-VC				S (Y
Date Time Matrix Sa	ample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + M	BTEX + M	TPH 8015B (GRO	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
2-24,151245 HO M	AW-7	3 VOA'S	Haciz										×					1
	140-9	3 VOA'S	HaciL										X					
	1w-11	3 VOAS	Haciz										X					
3:24-151146 HO M	100-12	3 VOAS	Haci-										X	_				
5-24-15 1200 H20 T	in Blank	2 VOA3	NA										X			_	_	_
								_	-								_	
							_	_								+	_	
							_		+							_	_	
							_		-	-	-				\rightarrow	-	+	-
					-		-	-	+		-	-					-	-
																-		
Date: Time: Relinquished by: 324-151640 hum Date: Time: Relinquished by:	Van Art	Received by:	Seco-	Date Time <u> </u>		narks	:											

Appendix 3

Laboratory Results





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

April 02, 2015

Scott McKitrick Souder Miller & Associates 3451 Candelaria, NE Suite D Albuquerque, NM 87107 TEL: (505) 299-0942 FAX

OrderNo.: 1503B63

RE: Chama Conoco Mini-Mart

Dear Scott McKitrick:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/24/2015 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 <u>www.hallenvironmental.com</u> 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 qualifers 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 #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates **Project:** Chama Conoco Mini-Mart

1503B63-001

Lab ID:

Client Sample ID: MW-7 Collection Date: 3/24/2015 12:45:00 PM

Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: cadg
Benzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R2517
Toluene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R2517
Ethylbenzene	170	5.0	µg/L	5	3/30/2015 1:35:18 PM	R2517
Methyl tert-butyl ether (MTBE)	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2,4-Trimethylbenzene	150	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,3,5-Trimethylbenzene	120	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2-Dichloroethane (EDC)	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2-Dibromoethane (EDB)	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Naphthalene	49	10	µg/L	5	3/30/2015 1:35:18 PM	R251
1-Methylnaphthalene	21	20	µg/L	5	3/30/2015 1:35:18 PM	R251
2-Methylnaphthalene	35	20	µg/L	5	3/30/2015 1:35:18 PM	R251
Acetone	ND	50	µg/L	5	3/30/2015 1:35:18 PM	R251
Bromobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Bromodichloromethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Bromoform	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Bromomethane	ND	15	μg/L	5	3/30/2015 1:35:18 PM	R251
2-Butanone	ND	50	µg/L	5	3/30/2015 1:35:18 PM	R251
Carbon disulfide	ND	50	µg/L	5	3/30/2015 1:35:18 PM	R251
Carbon Tetrachloride	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Chlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Chloroethane	ND	10	µg/L	5	3/30/2015 1:35:18 PM	R251
Chloroform	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Chloromethane	ND	15	µg/L	5	3/30/2015 1:35:18 PM	R251
2-Chlorotoluene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
4-Chlorotoluene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
cis-1,2-DCE	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
cis-1,3-Dichloropropene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2-Dibromo-3-chloropropane	ND	10	µg/L	5	3/30/2015 1:35:18 PM	R251
Dibromochloromethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Dibromomethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2-Dichlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,3-Dichlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,4-Dichlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
Dichlorodifluoromethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,1-Dichloroethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,1-Dichloroethene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,2-Dichloropropane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R251
1,3-Dichloropropane	ND	5.0	μg/L	5	3/30/2015 1:35:18 PM	R251
2,2-Dichloropropane	ND	10	μg/L	5	3/30/2015 1:35:18 PM	R251

Matrix: AQUEOUS

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 4/2/2015

CLIENT: Souder Miller & Associates			Client Sampl	e ID: M	W-7	
Project: Chama Conoco Mini-Mart			Collection I	Date: 3/2	24/2015 12:45:00 PM	
Lab ID: 1503B63-001	Matrix 4	AQUEOUS			24/2015 4:40:00 PM	
Lao ID. 1505D05-001		AQUEOUS	Receiveu	Date. 3/2	24/2013 4.40.00 I M	
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	cadg
1,1-Dichloropropene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
Hexachlorobutadiene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
2-Hexanone	ND	50	µg/L	5	3/30/2015 1:35:18 PM	R25170
Isopropylbenzene	14	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
4-Isopropyltoluene	11	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
4-Methyl-2-pentanone	ND	50	µg/L	5	3/30/2015 1:35:18 PM	R25170
Methylene Chloride	ND	15	µg/L	5	3/30/2015 1:35:18 PM	R25170
n-Butylbenzene	ND	15	µg/L	5	3/30/2015 1:35:18 PM	R25170
n-Propylbenzene	16	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
sec-Butylbenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
Styrene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
tert-Butylbenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
1,1,2,2-Tetrachloroethane	ND	10	µg/L	5	3/30/2015 1:35:18 PM	R25170
Tetrachloroethene (PCE)	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
trans-1,2-DCE	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
trans-1,3-Dichloropropene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
1,2,3-Trichlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
1,1,1-Trichloroethane	ND	5.0	μg/L	5	3/30/2015 1:35:18 PM	R25170
1,1,2-Trichloroethane	ND	5.0	µg/L	5	3/30/2015 1:35:18 PM	R25170
Trichloroethene (TCE)	ND	5.0	μg/L	5	3/30/2015 1:35:18 PM	R25170
Trichlorofluoromethane	ND	5.0	μg/L	5	3/30/2015 1:35:18 PM	R25170
1,2,3-Trichloropropane	ND	10	μg/L	5	3/30/2015 1:35:18 PM	R25170
Vinyl chloride	ND	5.0	μg/L	5	3/30/2015 1:35:18 PM	R25170
Xylenes, Total	390	7.5	μg/L	5	3/30/2015 1:35:18 PM	R25170
Surr: 1,2-Dichloroethane-d4	94.8	70-130	%REC	5	3/30/2015 1:35:18 PM	R25170

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

S

Surr: Toluene-d8

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

70-130

70-130

70-130

%REC

%REC

%REC

5

5

5

3/30/2015 1:35:18 PM

3/30/2015 1:35:18 PM

3/30/2015 1:35:18 PM R25170

R25170

R25170

Page 2 of 15

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limitsO RSD is greater than RSDlimit		ND	Not Detected at the Reporting Limit Page 2 of
			Р	Sample pH Not In Range
	R RPD outside accepted recovery limits RL Reporting Detection		Reporting Detection Limit	

Spike Recovery outside accepted recovery limits

74.0

99.1

101

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates **Project:** Chama Conoco Mini-Mart

1503B63-002

Lab ID:

Client Sample ID: MW-8 Collection Date: 3/24/2015 12:30:00 PM

Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: cadg
Benzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R2517
Toluene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R2517
Ethylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R2517
Methyl tert-butyl ether (MTBE)	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R2517
1,2,4-Trimethylbenzene	4.5	2.0	µg/L	2	3/30/2015 2:04:14 PM	R2517
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
1,2-Dichloroethane (EDC)	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Naphthalene	4.8	4.0	µg/L	2	3/30/2015 2:04:14 PM	R251
1-Methylnaphthalene	ND	8.0	µg/L	2	3/30/2015 2:04:14 PM	R251
2-Methylnaphthalene	ND	8.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Acetone	ND	20	µg/L	2	3/30/2015 2:04:14 PM	R251
Bromobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Bromodichloromethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Bromoform	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Bromomethane	ND	6.0	μg/L	2	3/30/2015 2:04:14 PM	R251
2-Butanone	ND	20	μg/L	2	3/30/2015 2:04:14 PM	R251
Carbon disulfide	ND	20	μg/L	2	3/30/2015 2:04:14 PM	R251
Carbon Tetrachloride	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
Chlorobenzene	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
Chloroethane	ND	4.0	μg/L	2	3/30/2015 2:04:14 PM	R251
Chloroform	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R25′
Chloromethane	ND	6.0	μg/L	2	3/30/2015 2:04:14 PM	R25′
2-Chlorotoluene	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R25′
4-Chlorotoluene	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
cis-1,2-DCE	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
cis-1,3-Dichloropropene	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,2-Dibromo-3-chloropropane	ND	4.0	μg/L	2	3/30/2015 2:04:14 PM	R251
Dibromochloromethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Dibromomethane	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,2-Dichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
1,3-Dichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
1,4-Dichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R251
Dichlorodifluoromethane	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,1-Dichloroethane	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,1-Dichloroethene	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,2-Dichloropropane	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
1,3-Dichloropropane	ND	2.0	μg/L	2	3/30/2015 2:04:14 PM	R251
2,2-Dichloropropane	ND	4.0	μg/L	2	3/30/2015 2:04:14 PM	R251

Matrix: AQUEOUS

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 3 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates

1503B63-002

Chama Conoco Mini-Mart

Project:

Lab ID:

Client Sample ID: MW-8 Collection Date: 3/24/2015 12:30:00 PM

Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: cadg
1,1-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Hexachlorobutadiene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
2-Hexanone	ND	20	µg/L	2	3/30/2015 2:04:14 PM	R25170
Isopropylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
4-Isopropyltoluene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
4-Methyl-2-pentanone	ND	20	µg/L	2	3/30/2015 2:04:14 PM	R25170
Methylene Chloride	ND	6.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
n-Butylbenzene	ND	6.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
n-Propylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
sec-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Styrene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
tert-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,1,2,2-Tetrachloroethane	ND	4.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Tetrachloroethene (PCE)	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
trans-1,2-DCE	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
trans-1,3-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,1,1-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,1,2-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Trichloroethene (TCE)	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Trichlorofluoromethane	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
1,2,3-Trichloropropane	ND	4.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Vinyl chloride	ND	2.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Xylenes, Total	18	3.0	µg/L	2	3/30/2015 2:04:14 PM	R25170
Surr: 1,2-Dichloroethane-d4	99.2	70-130	%REC	2	3/30/2015 2:04:14 PM	R25170
Surr: 4-Bromofluorobenzene	89.8	70-130	%REC	2	3/30/2015 2:04:14 PM	R25170
Surr: Dibromofluoromethane	101	70-130	%REC	2	3/30/2015 2:04:14 PM	R25170
Surr: Toluene-d8	99.7	70-130	%REC	2	3/30/2015 2:04:14 PM	R25170

Matrix: AQUEOUS

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

Oualifiers: * Value exceeds Maximum Contaminant Level. Е Value above quantitation range

- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND
 - Not Detected at the Reporting Limit Page 4 of 15
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates **Project:** Chama Conoco Mini-Mart

1503B63-003

Lab ID:

Client Sample ID: MW-11 Collection Date: 3/24/2015 12:10:00 PM

Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: cadg
Benzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Toluene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Ethylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Methyl tert-butyl ether (MTBE)	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,2,4-Trimethylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,3,5-Trimethylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,2-Dichloroethane (EDC)	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Naphthalene	ND	4.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1-Methylnaphthalene	ND	8.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
2-Methylnaphthalene	ND	8.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Acetone	ND	20	μg/L	2	3/30/2015 2:32:57 PM	R25170
Bromobenzene	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Bromodichloromethane	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Bromoform	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Bromomethane	ND	6.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
2-Butanone	ND	20	μg/L	2	3/30/2015 2:32:57 PM	R25170
Carbon disulfide	ND	20	μg/L	2	3/30/2015 2:32:57 PM	R25170
Carbon Tetrachloride	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Chlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Chloroethane	ND	4.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Chloroform	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Chloromethane	ND	6.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
2-Chlorotoluene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
4-Chlorotoluene	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
cis-1,2-DCE	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
cis-1,3-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,2-Dibromo-3-chloropropane	ND	4.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Dibromochloromethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
Dibromomethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,2-Dichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,3-Dichlorobenzene	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
1,4-Dichlorobenzene	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
Dichlorodifluoromethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170
1,1-Dichloroethane	ND	2.0	µg/∟ µg/L	2	3/30/2015 2:32:57 PM	R25170
1,1-Dichloroethene	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
1,2-Dichloropropane	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
1,3-Dichloropropane	ND	2.0	μg/L	2	3/30/2015 2:32:57 PM	R25170
2,2-Dichloropropane	ND	2.0 4.0	µg/∟ µg/L	2	3/30/2015 2:32:57 PM	R25170
2,2-Dichloropropane	ND	4.0	µg/L	Z	3/30/2013 2.32.37 FIV	R23170

Matrix: AQUEOUS

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

- **Oualifiers:** * Value exceeds Maximum Contaminant Level.
 - Е Value above quantitation range
 - J Analyte detected below quantitation limits
 - 0 RSD is greater than RSDlimit
 - R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 5 of 15
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates

Chama Conoco Mini-Mart

Project:

Client Sample ID: MW-11 Collection Date: 3/24/2015 12:10:00 PM Received Date: 3/24/2015 4:40:00 PM

Lab ID: 1503B63-003	Matrix:	AQUEOUS	Received	Date: 3/2	24/2015 4:40:00 PM		
Analyses	Result	RL Qua	d Units	DF	Date Analyzed	Batch	
EPA METHOD 8260B: VOLATILES					Analyst	t: cadg	
1,1-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Hexachlorobutadiene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
2-Hexanone	ND	20	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Isopropylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
4-Isopropyltoluene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
4-Methyl-2-pentanone	ND	20	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Methylene Chloride	ND	6.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
n-Butylbenzene	ND	6.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
n-Propylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
sec-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Styrene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
tert-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,1,2,2-Tetrachloroethane	ND	4.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Tetrachloroethene (PCE)	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
trans-1,2-DCE	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
trans-1,3-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,1,1-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,1,2-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Trichloroethene (TCE)	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Trichlorofluoromethane	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
1,2,3-Trichloropropane	ND	4.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Vinyl chloride	ND	2.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Xylenes, Total	ND	3.0	µg/L	2	3/30/2015 2:32:57 PM	R25170	
Surr: 1,2-Dichloroethane-d4	92.1	70-130	%REC	2	3/30/2015 2:32:57 PM	R25170	
Surr: 4-Bromofluorobenzene	101	70-130	%REC	2	3/30/2015 2:32:57 PM	R25170	
Surr: Dibromofluoromethane	97.3	70-130	%REC	2	3/30/2015 2:32:57 PM	R25170	
Surr: Toluene-d8	100	70-130	%REC	2	3/30/2015 2:32:57 PM	R25170	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Б	Value above quantitation range

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND
 - Not Detected at the Reporting Limit Page 6 of 15
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates Project: Chama Conoco Mini-Mart

1503B63-004

Lab ID:

Client Sample ID: MW-12 Collection Date: 3/24/2015 11:46:00 AM Received Date: 3/24/2015 4:40:00 PM

Result **RL** Oual Units **DF** Date Analyzed Batch Analyses EPA METHOD 8260B: VOLATILES Analyst: cadg 3/30/2015 3:01:44 PM R25170 Benzene ND 2.0 µg/L 2 Toluene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 2.0 2 Ethylbenzene µg/L 3/30/2015 3:01:44 PM R25170 Methyl tert-butyl ether (MTBE) ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 1,2,4-Trimethylbenzene 2.0 µg/L 2 R25170 3/30/2015 3:01:44 PM 1,3,5-Trimethylbenzene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 1,2-Dichloroethane (EDC) ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 1,2-Dibromoethane (EDB) ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 2 Naphthalene ND 4.0 µg/L 3/30/2015 3:01:44 PM R25170 1-Methylnaphthalene ND 8.0 2 µg/L 3/30/2015 3:01:44 PM R25170 2-Methylnaphthalene ND 8.0 µg/L 2 3/30/2015 3:01:44 PM R25170 Acetone ND 20 µg/L 2 3/30/2015 3:01:44 PM R25170 Bromobenzene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 2.0 2 Bromodichloromethane µg/L 3/30/2015 3:01:44 PM R25170 ND 2.0 2 Bromoform µg/L 3/30/2015 3:01:44 PM R25170 Bromomethane 2 ND 6.0 µg/L 3/30/2015 3:01:44 PM R25170 2-Butanone ND 20 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 20 2 Carbon disulfide µg/L 3/30/2015 3:01:44 PM R25170 Carbon Tetrachloride ND 2.0 2 3/30/2015 3:01:44 PM R25170 µg/L Chlorobenzene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 Chloroethane ND 4.0 µg/L 2 3/30/2015 3:01:44 PM R25170 Chloroform ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 6.0 2 3/30/2015 3:01:44 PM R25170 Chloromethane µg/L ND 2.0 2 R25170 2-Chlorotoluene µg/L 3/30/2015 3:01:44 PM ND 2.0 4-Chlorotoluene 2 3/30/2015 3:01:44 PM R25170 µg/L cis-1.2-DCE ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 cis-1,3-Dichloropropene ND 2.0 2 R25170 µg/L 3/30/2015 3:01:44 PM 1,2-Dibromo-3-chloropropane ND 4.0 µg/L 2 3/30/2015 3:01:44 PM R25170 2.0 2 3/30/2015 3:01:44 PM Dibromochloromethane ND µg/L R25170 Dibromomethane ND 2.0 2 3/30/2015 3:01:44 PM R25170 µg/L 2 1,2-Dichlorobenzene ND 2.0 µg/L 3/30/2015 3:01:44 PM R25170 1.3-Dichlorobenzene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 1,4-Dichlorobenzene ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 Dichlorodifluoromethane ND 2.0 2 3/30/2015 3:01:44 PM R25170 µg/L ND 2.0 2 R25170 1,1-Dichloroethane µg/L 3/30/2015 3:01:44 PM ND 2.0 2 1,1-Dichloroethene µg/L 3/30/2015 3:01:44 PM R25170 1.2-Dichloropropane ND 2.0 µg/L 2 3/30/2015 3:01:44 PM R25170 ND 2.0 2 1,3-Dichloropropane µg/L 3/30/2015 3:01:44 PM R25170 2,2-Dichloropropane ND 4.0 µg/L 2 3/30/2015 3:01:44 PM R25170

Matrix: AQUEOUS

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

Qualifiers: * Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 7 of 15
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1503B63** Date Reported: **4/2/2015**

Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates

Chama Conoco Mini-Mart

Project:

Client Sample ID: MW-12 Collection Date: 3/24/2015 11:46:00 AM Received Date: 3/24/2015 4:40:00 PM

Lab ID: 1503B63-004	Matrix:	AQUEOUS	Received 1	Date: 3/2	24/2015 4:40:00 PM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8260B: VOLATILES					Analyst	t: cadg	
1,1-Dichloropropene	ND	2.0	μg/L	2	3/30/2015 3:01:44 PM	R25170	
Hexachlorobutadiene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
2-Hexanone	ND	20	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Isopropylbenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
4-Isopropyltoluene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
4-Methyl-2-pentanone	ND	20	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Methylene Chloride	ND	6.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
n-Butylbenzene	ND	6.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
n-Propylbenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
sec-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Styrene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
tert-Butylbenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,1,1,2-Tetrachloroethane	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,1,2,2-Tetrachloroethane	ND	4.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Tetrachloroethene (PCE)	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
trans-1,2-DCE	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
trans-1,3-Dichloropropene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,2,3-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,2,4-Trichlorobenzene	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,1,1-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,1,2-Trichloroethane	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Trichloroethene (TCE)	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Trichlorofluoromethane	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
1,2,3-Trichloropropane	ND	4.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Vinyl chloride	ND	2.0	µg/L	2	3/30/2015 3:01:44 PM	R25170	
Xylenes, Total	ND	3.0	μg/L	2	3/30/2015 3:01:44 PM	R25170	
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%REC	2	3/30/2015 3:01:44 PM	R25170	
Surr: 4-Bromofluorobenzene	103	70-130	%REC	2	3/30/2015 3:01:44 PM	R25170	
Surr: Dibromofluoromethane	99.4	70-130	%REC	2	3/30/2015 3:01:44 PM	R25170	
Surr: Toluene-d8	96.3	70-130	%REC	2	3/30/2015 3:01:44 PM	R25170	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	Е	Value above quantitation range
	J	Analyte detected below quantitation limits
	0	RSD is greater than RSDlimit

R RPD outside accepted recovery limits

- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND
 - Not Detected at the Reporting Limit Page 8 of 15
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1503B63 Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates

Project: Chama Conoco Mini-Mart 1503B63-005

Lab ID:

Matrix: TRIP BLANK Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: cadg
Benzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Toluene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Ethylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2-Dichloroethane (EDC)	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Naphthalene	ND	2.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1-Methylnaphthalene	ND	4.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
2-Methylnaphthalene	ND	4.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Acetone	ND	10	µg/L	1	3/28/2015 8:47:44 AM	R25144
Bromobenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Bromodichloromethane	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Bromoform	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Bromomethane	ND	3.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
2-Butanone	ND	10	µg/L	1	3/28/2015 8:47:44 AM	R25144
Carbon disulfide	ND	10	μg/L	1	3/28/2015 8:47:44 AM	R25144
Carbon Tetrachloride	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Chlorobenzene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Chloroethane	ND	2.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Chloroform	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Chloromethane	ND	3.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
2-Chlorotoluene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
4-Chlorotoluene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
cis-1,2-DCE	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Dibromochloromethane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Dibromomethane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,2-Dichlorobenzene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,3-Dichlorobenzene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,4-Dichlorobenzene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
Dichlorodifluoromethane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,1-Dichloroethane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,1-Dichloroethene	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,2-Dichloropropane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
1,3-Dichloropropane	ND	1.0	μg/L	1	3/28/2015 8:47:44 AM	R25144
2,2-Dichloropropane	ND	2.0	μg/L	1	3/28/2015 8:47:44 AM	R25144

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

- **Oualifiers:** * Value exceeds Maximum Contaminant Level.
 - Е Value above quantitation range
 - J Analyte detected below quantitation limits
 - 0 RSD is greater than RSDlimit
 - R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 9 of 15
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Client Sample ID: TRIP BLANK Collection Date:

Analytical Report Lab Order 1503B63 Date Reported: 4/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder Miller & Associates

1503B63-005

Chama Conoco Mini-Mart

Project:

Lab ID:

Client Sample ID: TRIP BLANK Collection Date:

Matrix: TRIP BLANK Received Date: 3/24/2015 4:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	cadg
1,1-Dichloropropene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Hexachlorobutadiene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
2-Hexanone	ND	10	µg/L	1	3/28/2015 8:47:44 AM	R25144
Isopropylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
4-Isopropyltoluene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
4-Methyl-2-pentanone	ND	10	µg/L	1	3/28/2015 8:47:44 AM	R25144
Methylene Chloride	ND	3.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
n-Butylbenzene	ND	3.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
n-Propylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
sec-Butylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Styrene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
tert-Butylbenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Tetrachloroethene (PCE)	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
trans-1,2-DCE	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2,3-Trichlorobenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,1,1-Trichloroethane	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,1,2-Trichloroethane	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Trichloroethene (TCE)	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Trichlorofluoromethane	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
1,2,3-Trichloropropane	ND	2.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Vinyl chloride	ND	1.0	µg/L	1	3/28/2015 8:47:44 AM	R25144
Xylenes, Total	ND	1.5	µg/L	1	3/28/2015 8:47:44 AM	R25144
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	3/28/2015 8:47:44 AM	R25144
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	3/28/2015 8:47:44 AM	R25144
Surr: Dibromofluoromethane	99.8	70-130	%REC	1	3/28/2015 8:47:44 AM	R25144
Surr: Toluene-d8	100	70-130	%REC	1	3/28/2015 8:47:44 AM	R25144

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

Oualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
 - Not Detected at the Reporting Limit Page 10 of 15
- Р Sample pH Not In Range

ND

RL Reporting Detection Limit

WO#: 1503B63

02-Apr-15

	Miller & As Conoco Mir		S							
Sample ID 100ng lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method				
Client ID: LCSW	Batch	Batch ID: R25144 RunNo: 25144								
Prep Date:	Analysis D	ate: 3/	27/2015	S	SeqNo: 7	42715	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	70	130			
Toluene	22	1.0	20.00	0	108	70	130			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	120	75.6	144			
Trichloroethene (TCE)	20	1.0	20.00	0	98.9	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			
Sample ID 5mL rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: R2	5144	F	RunNo: 25144					
Prep Date:	Analysis D	ate: 3/	27/2015	S	eqNo: 7	42729	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								
	ND									
2-Chlorotoluene	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Р Sample pH Not In Range
 - Reporting Detection Limit RL

Page 11 of 15

WO#:	1503B63
	02-Apr-15

	ler Miller & As na Conoco Mir		S							
Sample ID 5mL rb	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: R2	5144	RunNo: 25144						
Prep Date:	Analysis D	ate: 3/	27/2015	S	SeqNo: 7	742729	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

	Souder Miller & A Chama Conoco M									
Sample ID 5mL rb	Sam	рТуре: М	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Ba	tch ID: R	25144	F	RunNo: 2	5144				
Prep Date:	Analysis	Date: 3	/27/2015	S	SeqNo: 7	42729	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0			/01120	LOWLINK	i ligitzirik			Quui
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethar			10.00		99.3	70	130			
Surr: 4-Bromofluorober			10.00		109	70	130			
Surr: Dibromofluorome			10.00		102	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			
Sample ID 5mL rb	Sam	рТуре: М		Tos	tCodo: El	PA Mothod	8260B: VOL			
Client ID: PBW		tch ID: R			RunNo: 2		0200B: VUL	AIILES		
							l laitas sur 0			
Prep Date:	Analysis	Date: 3	/30/2015	2	SeqNo: 7	43700	Units: µg/L			
Analyte	Result	PQL		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 (M		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:

4-Chlorotoluene

cis-1,3-Dichloropropene

cis-1,2-DCE

Value exceeds Maximum Contaminant Level. *

ND

ND

ND

1.0

1.0

1.0

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Р Sample pH Not In Range
 - Reporting Detection Limit RL

02-Apr-15

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WO#:	1503B63
	02-Apr-15

Client:	Souder Miller									
Project:	Chama Conoco	o Mini-Mai	t							
Sample ID 5mL rb	s s	ampType: N	IBLK	Tes	tCode:	EPA Metho	d 8260B: VOL	ATILES		
Client ID: PBW		Batch ID: R25170			RunNo:					
Prep Date:	Anal	ysis Date:	3/30/2015	Ş	SeqNo:	743700	Units: µg/L			
Analyte	Res	sult PQL	SPK value	SPK Ref Val	%REC	C LowLimit	: HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropro		ND 2.0					3			
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-Tetrachloroethan	e	ND 1.0)							
1,1,2,2-Tetrachloroethan	e	ND 2.0)							
Tetrachloroethene (PCE)	ND 1.0)							
trans-1,2-DCE		ND 1.0)							
trans-1,3-Dichloroproper	ne	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								
Vinyl chloride		ND 1.0								
Xylenes, Total		ND 1.	5							
Surr: 1,2-Dichloroetha	ne-d4	10	10.00		100) 70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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10

10

10.00

10.00

Client: Project:	Souder Miller & Ass Chama Conoco Min		8							
Sample ID 5mL rb	SampTy	/pe: ME	BLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	Batch ID: R25170 RunNo: 25			5170	0				
Prep Date:	Analysis Da	ate: 3/	30/2015	S	eqNo: 7	43700	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobe	nzene 11		10.00		108	70	130			
Surr: Dibromofluorome	thane 10		10.00		103	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			
		SampType: LCS TestCode: EPA Method 8260B: VOLATILES								
Sample ID 100ng I	cs SampTy	/pe: LC	S	Test	tCode: El	PA Method	8260B: VOL	ATILES		
Sample ID 100ng I Client ID: LCSW		/pe: LC ID: R2			tCode: El		8260B: VOL	ATILES		
		ID: R2	5170	R		5170	8260Β: VOL	ATILES		
Client ID: LCSW	Batch	ID: R2	5170 30/2015	R	unNo: 2	5170		ATILES %RPD	RPDLimit	Qual
Client ID: LCSW Prep Date:	Batch Analysis Da	ID: R2 ate: 3/	5170 30/2015	R	tunNo: 2 SeqNo: 7	5170 43704	Units: µg/L	-	RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte	Batch Analysis Da Result	ID: R2 ate: 3/ PQL	5170 30/2015 SPK value	R S SPK Ref Val	tunNo: 2 SeqNo: 7 %REC	5170 43704 LowLimit	Units: µg/L HighLimit	-	RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Benzene	Batch Analysis Da Result 22	ID: R2 ate: 3/ PQL 1.0	5170 30/2015 SPK value 20.00	R S SPK Ref Val 0	2000 2000 2000 2000 2000 2000 2000 200	5170 43704 LowLimit 70	Units: µg/L HighLimit 130	-	RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Benzene Toluene	Batch Analysis Da Result 22 22	ID: R2 ate: 3/ <u>PQL</u> 1.0 1.0	5170 30/2015 SPK value 20.00 20.00	R S SPK Ref Val 0 0	tunNo: 2 GeqNo: 7 %REC 108 108	5170 43704 LowLimit 70 70	Units: µg/L HighLimit 130 130	-	RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Benzene Toluene Chlorobenzene	Batch Analysis Da Result 22 22 20	ID: R2 ate: 3/ <u>PQL</u> 1.0 1.0 1.0	5170 30/2015 SPK value 20.00 20.00 20.00	R SPK Ref Val 0 0 0	tunNo: 2 ieqNo: 7 <u>%REC</u> 108 108 101	5170 43704 LowLimit 70 70 70	Units: µg/L HighLimit 130 130 130	-	RPDLimit	Qual
Client ID: LCSW Prep Date: Analyte Benzene Toluene Chlorobenzene 1,1-Dichloroethene	Batch Analysis Da Result 22 22 20 24 21	ID: R2 ate: 3/ PQL 1.0 1.0 1.0 1.0	5170 30/2015 SPK value 20.00 20.00 20.00 20.00	R SPK Ref Val 0 0 0 0	eqNo: 2 %REC 108 108 101 122	5170 43704 LowLimit 70 70 70 75.6	Units: µg/L HighLimit 130 130 130 144	-	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

Surr: Dibromofluoromethane

Surr: Toluene-d8

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

70

70

99.8

101

130

130

- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

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WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Labor 4901 Hawki Albuquerque, NM & TEL: 505-345-3975 FAX: 505-345 Website: www.hallenvironment	ns NE 87109 Sam j -4107	Sample Log-In Check Lis		
Client Name: SMA ABQ	Work Order Number: 1503B63		RcptNo: 1		
Received by/date:	03/24/15	N			
Logged By: Ashley Gallegos	3/24/2015 4:40:00 PM	A			
Completed By: Ashley Gallegos	3/25/2015 5:41:53 PM	F			
Reviewed By:	03/210/15	v			
Chain of Custody	opor-				
1. Custody seals intact on sample bottles?	Yes 🗋	No 🗔	Not Present 🐱		
2. Is Chain of Custody complete?	Yes 🛃	No 🗔	Not Present 🗋		
3. How was the sample delivered?	<u>Client</u>				
Log In					
A Map on attempt made to cool the sample	e? Yes 🖨	No 🗌			

Not Present 🐱 Not Present 🗔

4. Was an attempt made to cool the samples?	Yes 🖈	No 🗌	NA 🗔	
5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0° C	Yes 🛃	No []		
6. Sample(s) in proper container(s)?	Yes 🕢	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🖈	No		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🖈	No 📋		
9. Was preservative added to bottles?	Yes 🗋	No 🛃		
10.VOA vials have zero headspace?	Yes 🖈	No 🗆	No VOA Vials \Box	
11. Were any sample containers received broken?	Yes	No 🛃	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗩	No 🗌	bottles checked for pH: (<2 or >12 unless noted	d)
13. Are matrices correctly identified on Chain of Custody?	Yes 🛃	No 🗔	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🛃	Νο 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🖻	No 🗌	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 💌	
Person Notified:	Date	<u></u>		
By Whom:	via: 📄 eMail 📋 Pl	hone 🗌 Fax	In Person	
Regarding:				
Client Instructions:	1999 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 - 2019 -			
17. Additional remarks:				

18. Cooler Information

Cooler No	1	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Not Present			