2013–2014 System Operation and Remedial Action Progress

Griggs-Walnut Ground Water Plume Superfund Site

Prepared for **Las Cruces Utilities**
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List of Acronyms and Abbreviations

µg/L	microgram(s) per liter
CLC	City of Las Cruces
COC	contaminant of concern
DAC	Doña Ana County
DACTD	Doña Ana County Transportation Department
DBS&A	Daniel B. Stephens & Associates, Inc.
DCE	dichloroethene
EPA	U.S. Environmental Protection Agency
FS	feasibility study
gpm	gallons per minute
GWP site	Griggs and Walnut Ground Water Plume Superfund Site
I-25	Interstate Highway 25
JSP	Joint Superfund Project
lb/gal	pounds per gallon
lb/hr	pounds per hour
MAO	Modified Administrative Order
MCL	maximum contaminant level
NMED	New Mexico Environment Department
NPL	National Priorities List
NPR	No Permit Required
O&M	operation and maintenance
OSE	New Mexico Office of the State Engineer
PCE	perchloroethene

List of Acronyms and Abbreviations (Continued)

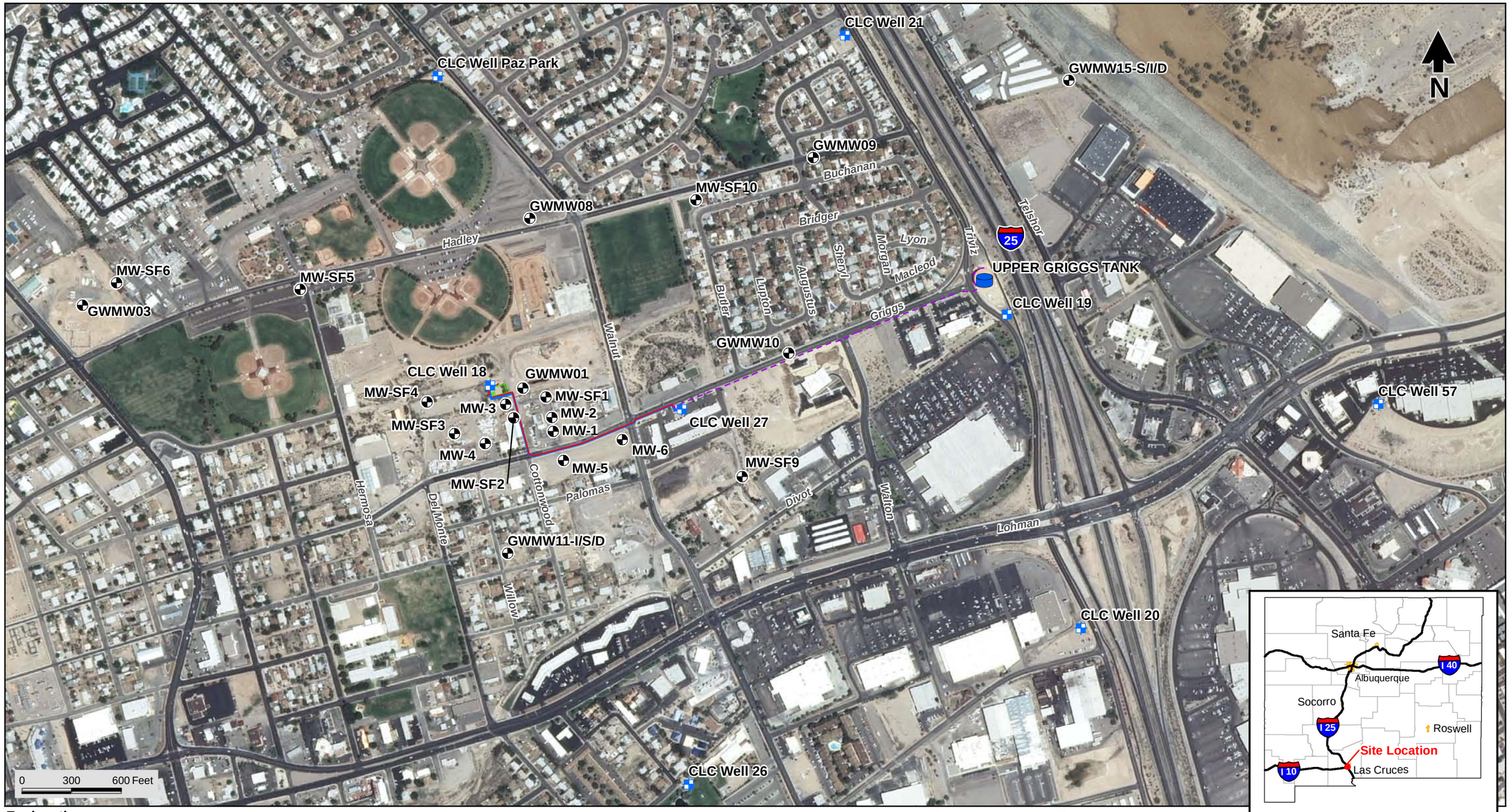
RAO	remedial action objective
RD	remedial design
RI	remedial investigation
ROD	Record of Decision
SAP	sampling and analysis plan
SDWA	Safe Drinking Water Act
SOW	scope of work
TCE	trichloroethylene
VOC	volatile organic compound

1. Introduction

The Joint Superfund Project (JSP), which consists of the City of Las Cruces (CLC) and Doña Ana County (DAC), has prepared this second annual report to summarize the progress made during the second year of operation of the groundwater remedy at the Griggs-Walnut Ground Water Plume Superfund Site (the GWP site) in Las Cruces, New Mexico. The JSP has prepared this annual report in accordance with Paragraph 29 of the Statement of Work (SOW) included as Appendix C of the Modified Administrative Order (MAO) governing remedial action at the GWP site that was issued by the U.S. Environmental Protection Agency (EPA). The JSP has been officially operating a groundwater remediation system as designed at the GWP site since September 2012, after a three-month shake-down period starting in April 2012. The GWP site is located in south-central New Mexico in the City of Las Cruces, within Doña Ana County (Figure 1); it is impacted by contaminants of concern (COCs) in deep groundwater beneath the site, primarily dissolved-phase perchloroethene (PCE, also known as tetrachloroethylene).

Prior to remedial action, the groundwater plume was located generally between East Griggs Avenue and East Hadley Avenue, extending east to beyond Interstate 25 (I-25) and west to beyond North Solano Avenue (Figure 2) in the City of Las Cruces. The property uses in this area are predominantly recreational, light industrial/commercial, and residential.

The project includes pumping contaminated groundwater from existing CLC public supply wells CLC 18 and CLC 27 to a centralized treatment facility on DAC property adjacent to CLC 18, treating the water to remove the PCE and other volatile organic compounds (VOCs) that may also be present, and returning the treated groundwater to the drinking water distribution system after disinfection. The treatment facility is located immediately north of the old Doña Ana County Transportation Department (DACTD) maintenance facility, and immediately west of the new DACTD maintenance facility. The project area also extends about 1,500 feet east of the DACTD maintenance facility to the location of well CLC 27. The project area is shown on Figure 1. This report covers the period from August 2013 through July 2014, and details the operation of the system, data collected during system operation, progress toward performance standards, and progress toward remedial goals.



Source: National Agricultural Imagery Program
August 2009, downloaded from RGIS

Explanation

- Monitor well
- CLC supply well
- CLC water reservoir
- Exisiting 10" water line to reservoir
- 6" raw water line
- 8" treated water line
- Treatment compound

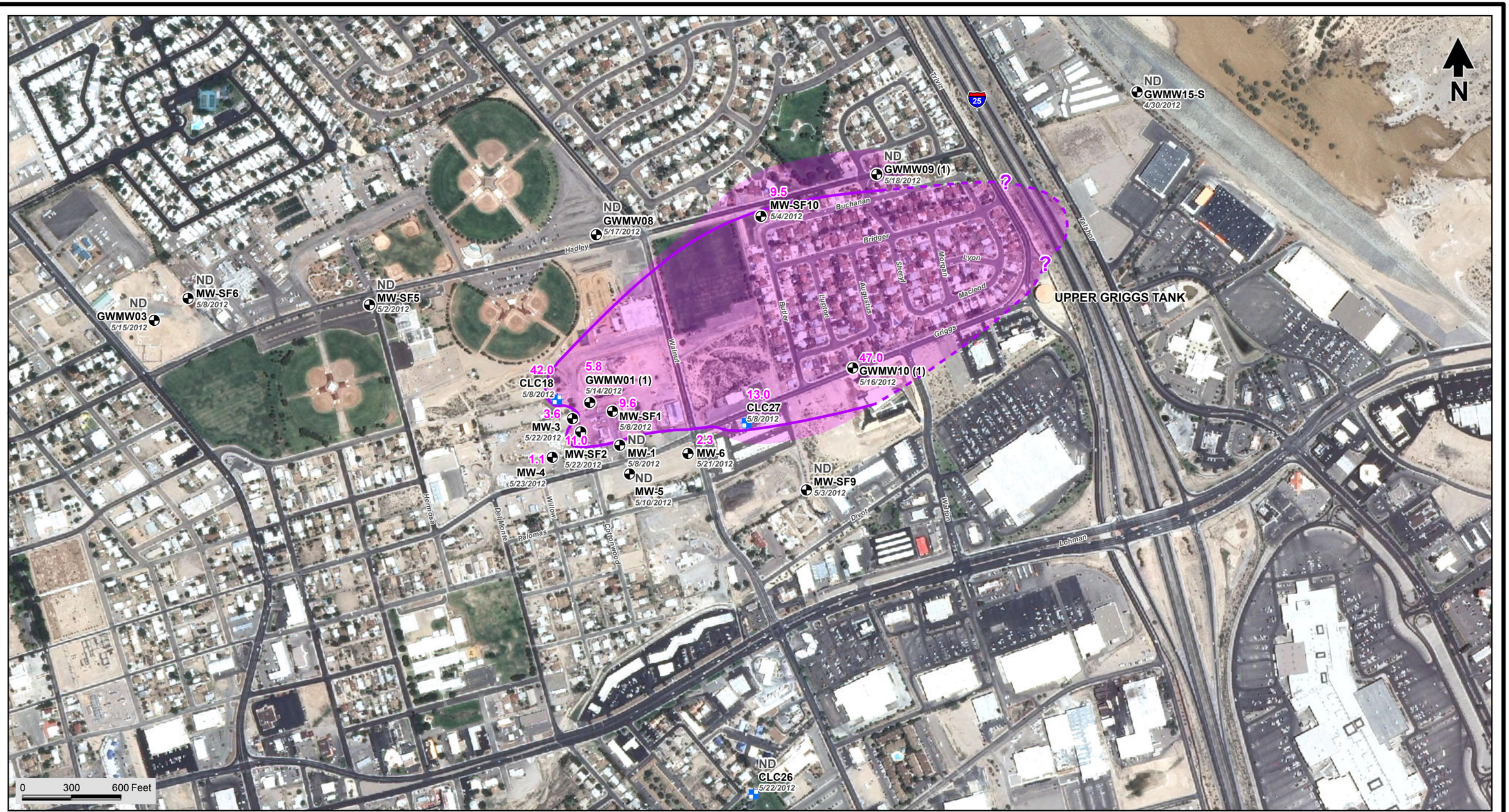
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06/06/2012 JN ES09.0306

GRIGGS-WALNUT GROUND WATER PLUME SITE
REMEDIAL ACTION

Site Area with Monitor Well Locations

Figure 1



Explanation

- Monitor well
- CLC supply well
- PCE in groundwater, May 2012 (dashed where inferred)
- 2.3 — Concentration (µg/L)
- MW-6 — Well designation (port number)
- 5/21/2012 — Sample date

Note:
1. ND = Not detected above reporting limit
2. Plume reflects PCE concentrations as expressed in wells completed across the water table and in the shallowest port in the GWMW wells (Port 1).

Source: National Agricultural Imagery Program August 2009. Downloaded from RGIS.

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10/29/2014 JN ES13.0251

GRIGGS-WALNUT GROUND WATER PLUME SITE
REMEDIAL ACTION

PCE in Groundwater, May 2012

Figure 2

1.1 Background

Between 1993 and 1995, trace amounts of PCE, a chlorinated solvent commonly used as a degreaser and as a dry cleaning agent, was detected in five wells during routine sampling performed by the New Mexico Environment Department (NMED). Through continued testing, CLC Utilities took the wells offline—specifically CLC 18 in 1996 and CLC 27 in 2000—due to PCE levels approaching the maximum contaminant level (MCL) of 5 micrograms per liter (µg/L).

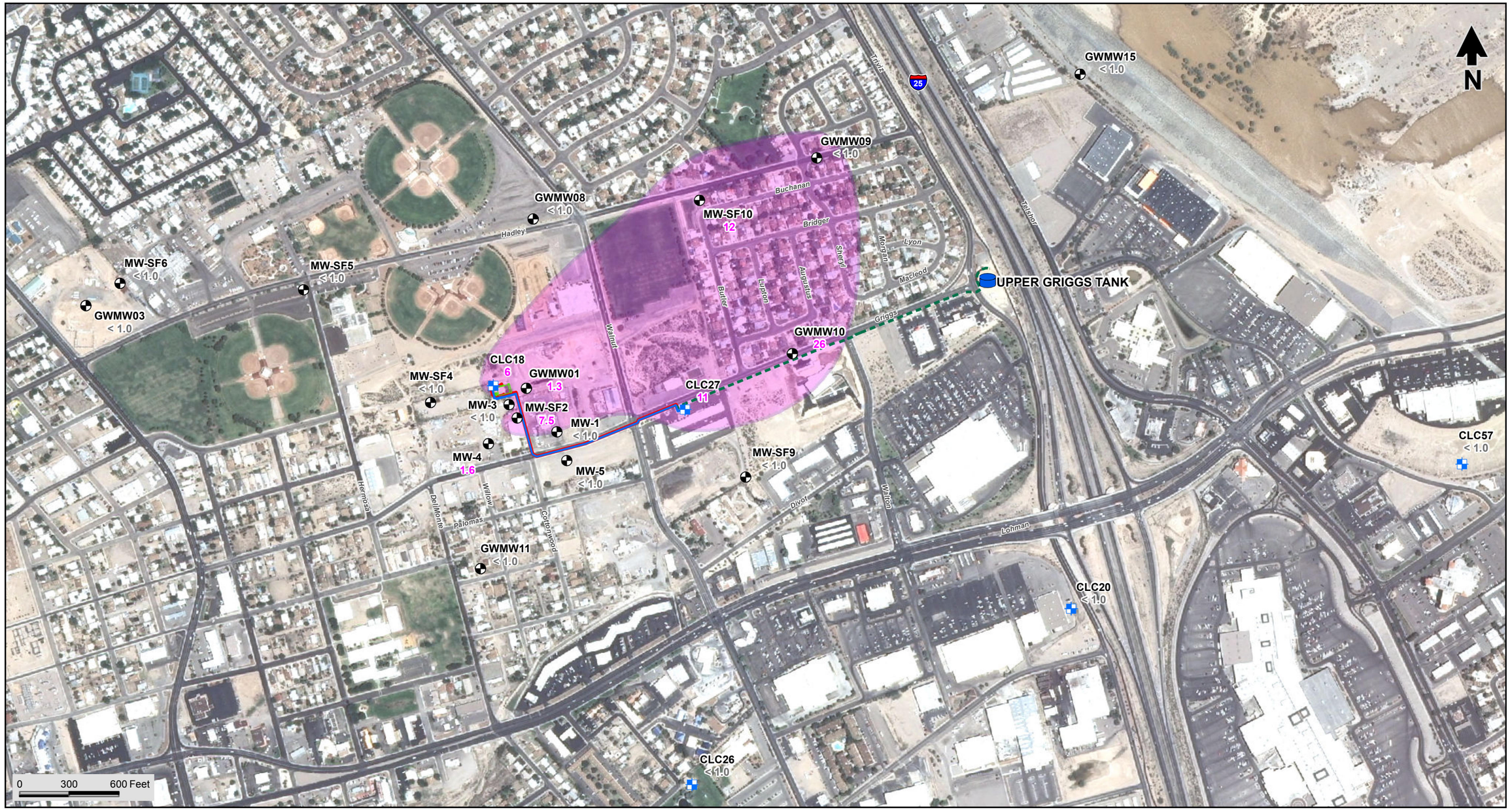
The GWP site was added to EPA's National Priorities List (NPL) of Superfund sites on June 14, 2001. At the time of listing, five CLC municipal drinking water supply wells (CLC 18, 19, 21, 24, and 27) were known to be affected by PCE contamination at concentrations above the MCL of 5 µg/L for PCE established by the Safe Drinking Water Act (SDWA).

The remedial investigation (RI) and feasibility study (FS) were performed by CH2M Hill under contract to the EPA (CH2M Hill, 2006a and 2006b). The Proposed Plan prepared in December 2006 (U.S. EPA, 2006) and the record of decision (ROD) issued by EPA on June 14, 2007 (U.S. EPA, 2007) set forth the selected remedy for the GWP site, which identified groundwater pumping from existing wells and treatment at the CLC 18 site as the preferred remedy. The maximum PCE concentrations measured during sampling for the remedial design (RD) in CLC 18 and CLC 27 were 56 and 13 µg/L, respectively (Terracon, 2010).

Construction of the remedy began in September 2011. During the next six months, tanks were constructed, the building and treatment system were installed, and wells CLC 18 and CLC 27 were reconfigured to work more efficiently as extraction wells and were connected to the treatment system. A pre-final inspection was conducted on April 16, 2012 for Substantial Completion, and was attended by representatives of EPA, NMED, DBS&A, CLC, and Highland Enterprises. A punchlist of items requiring completion was developed as a result of the pre-final inspection. All items on the punchlist were relatively minor and were corrected by the Contractor to the satisfaction of the EPA, NMED, the Owner, and DBS&A. On June 13, 2012, a final inspection was completed to verify that all punchlist items were addressed, which was signed off on by representatives from EPA, NMED, DBS&A, CLC, and Highland Enterprises. A preliminary Close-out Report was completed and signed June 22, 2012 by EPA.

1.2 Purpose

The purpose of this report is to summarize the progress that has been made in addressing the groundwater contamination at the GWP site. Between August 2013 and July 2014, approximately 106,617,377 gallons of water containing PCE have been treated to a non-detect level and used for public water supply. Figure 3 shows the extent of the PCE plume boundary based on the most recent groundwater monitoring event. Over the course of this reporting period approximately 10 pounds of PCE have been removed from the groundwater.



Explanation

- Monitor well
- Public supply well
- Existing 10" water line to reservoir
- 6" raw water line
- 8" finished water line
- Treatment compound
- PCE in groundwater February 2014

MW-4 Well designation

4.2 Concentration (µg/L)

< 1.0 Not detected above reporting limit

Notes: 1. Data from port 1 posted for GWMW01, -09 and -10.
2. Plume morphology takes into account contamination from deeper depths.

Source: National Agricultural Imagery Program August 2009. Downloaded from RGIS.

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GRIGGS-WALNUT GROUND WATER PLUME SITE
REMEDIAL ACTION

PCE in Groundwater, 2014

Figure 3

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2. Site Activities

Over the past year, the groundwater extraction and treatment system has been operated fairly continuously. The entire system was down for a 5-day period in February 2014 for air stripper maintenance. Operation of the selected remedy has included the following tasks:

- Sampling CLC 18 and CLC 27 monthly for PCE concentration
- Sampling system raw (extracted) and finished (treated) water monthly for monitoring of PCE concentration
- Normal operation and maintenance (O&M) of the extraction wells, conveyance system, and treatment equipment
- Groundwater monitoring (results discussed in Section 2.2)

2.1 Treatment System Operation

Operation of the treatment system includes monitoring the extracted (raw) and treated (finished) groundwater for VOCs and total metals. At the same time, the volume of water extracted and treated is also recorded. To ensure that air quality standards are not exceeded during the removal of VOCs via air stripping, air quality samples are also collected from the waste stream that exits the GWP site. Table 1 summarizes the analytes that are being monitored.

2.1.1 Treated Groundwater

Table 2 summarizes the sampling frequency of the remediation system sampling. Table 3 summarizes the volume pumped from CLC 18 and CLC 27 as reported to the New Mexico Office of the State Engineer (OSE). Table 4 summarizes the concentration of PCE in the extracted water as it is combined before treatment. Treated water quality data are also provided, as well as monthly totals of the treated water volume. It should be noted that the raw volume and finished volumes will not match due to time differences between readings for the OSE and SCADA downloads, storage, and demand.

Table 1. Analytical Methodologies and Screening Levels

Analyte Class	Analytical Method	Concentration (µg/L)		
		Method Detection Limit [a]	EPA MCL	NMWQCC Standard
Air				
PCE	8260B	0.39	NA	NA
TCE	8260B	0.24	NA	NA
DCE	8260B	0.27	NA	NA
Vinyl chloride	8260B	0.4	NA	NA
Groundwater				
PCE	8260B	0.39	5	20
TCE	8260B	0.24	5	100
DCE	8260B	0.27	5	10
Vinyl chloride	8260B	0.4	2	1
Arsenic	6020, ICPMS	0.07	10	100
Arsenic speciation	SM 3114B Mod.	2	10	100
Uranium	6020, ICPMS	0.011	30	30

[a] Method detection limit does not imply reporting limit.

µg/L = Micrograms per liter
MCL = Maximum contaminant level
NMWQCC = New Mexico Water Quality Control Commission
NA = Not applicable

Table 2. Remediation System Sampling Frequency

Sample Location	Sample Matrix	Sample Point	Sample Method	Sample Analyses	Startup Sample Collection Schedule [a]	Normal Operation Sampling and Monitoring Schedule
Pump P-1 finished	Groundwater	IS1	Grab	EPA 8260B for VOCs, field temperature, pH, and conductivity	Sample after first hour of operation of pump P-1. Every other day for first 6 days of operation.	Sample once per week for weeks 2 through 8. Thereafter, sample once per month or as directed.
C-1 finished	Groundwater	C1	Grab	EPA 8260B for VOCs, field temperature, pH, and conductivity	Sample after first 2 hours of operation of pump P-1. Once per day for days 2 through 6 of system operation.	Sample once per week for weeks 2 through 8. Thereafter, sample once per month or as directed.
C-2 finished	Groundwater	C2	Grab	EPA 8260B for VOCs, field temperature, pH, and conductivity	Sample after first 2 hours of operation of pump P-1. Once per day for days 2 through 6 of system operation.	Sample once per week for weeks 2 through 8. Thereafter, sample once per month or as directed.
Finished downstream of chlorine disinfection	Groundwater	ES1	Grab	EPA 8260B for VOCs, field temperature, pH, and conductivity	Sample after first 2 hours of operation of pump P-1. Once per day for days 2 through 6 of system operation.	Sample once per week for weeks 2 through 8. Thereafter, sample once per month or as directed.
C-1 air stripper emissions	Air	AS1	Grab	EPA 8260B for VOCs	Sample once per day for the first 3 days and once per week during remaining startup.	Sample once per week for weeks 2 through 4. Thereafter, sample once per month or as directed.
C-2 air stripper emissions	Air	AS2	Grab	EPA 8260B for VOCs	Sample once per day for the first 3 days and once per week during remaining startup.	Sample once per week for weeks 2 through 4. Thereafter, sample once per month or as directed.

[a] Plant will remain offline until startup is completed and normal operation is verified. A minimum of 4 weeks shakedown and startup will be accomplished prior to bringing system online.
VOCs = Volatile organic compounds

Table 3. Volume of Water Extracted and PCE Concentrations, CLC 18 and CLC 27
August 2013 through July 2014

Month	CLC 18		CLC 27	
	Groundwater Extracted (gallons)	Raw PCE Concentration (µg/L)	Groundwater Extracted (gallons)	Raw PCE Concentration (µg/L)
Aug 2013	9,519,000	2.4	5,644,000	14
Sep 2013	842,000	4.1	6,440,000	13
Oct 2013	1,240,000	3.9	7,440,000	13
Nov 2013	1,239,000	12	5,516,000	13
Dec 2013	1,210,000	23	5,908,000	9.8
Jan 2014	1,238,000	6	7,502,000	11
Feb 2014	977,000	25	5,687,000	10
Mar 2014	1,264,000	28	7,513,000	12
Apr 2014	1,173,000	20	7,130,000	12
May 2014	1,270,000	27	7,591,000	14
Jun 2014	1,237,000	22	7,234,000	9.9
Jul 2014	1,253,000	24	7,111,000	14
Total	22,462,000		80,716,000	

PCE = Perchloroethene
µg/L = Micrograms per liter

Table 4. Mass of PCE Removed from Groundwater
August 2013 through July 2014

Month	PCE Concentration (µg/L)		Volume Treated (gallons)	Mass of PCE Removed (pounds)
	Raw	Finished		
Aug 2013	6.0	ND	15,407,112	0.7
Sep 2013	8.5	ND	7,637,696	0.5
Oct 2013	8.2	ND	9,072,091	0.6
Nov 2013	16	ND	6,785,839	0.9
Dec 2013	12	ND	7,590,098	0.7
Jan 2014	11	ND	8,929,198	0.8
Feb 2014	13	ND	6,928,769	0.7
Mar 2014	15	ND	9,201,936	1.1
Apr 2014	15	ND	8,779,950	1.1
May 2014	16	ND	9,048,184	1.2
Jun 2014	12 [a]	ND	8,585,128	0.8
Jul 2014	17	ND	8,651,377	1.2
Total			106,617,377	10

Note: For the purposes of mass removal calculations, non-detect results were assumed to be equal to half of the laboratory detection limit.

[a] Raw water concentration was calculated as a weighted average of the influent concentrations for CLC 18 and CLC 27.

PCE = Perchloroethene
µg/L = Micrograms per liter

The concentration of PCE entering the system has tripled, from 6 µg/L in August 2013 to 17 µg/L in July 2014 (Figure 4). The concentration of PCE in CLC 18 increased, while the concentration in CLC 27 remained relatively stable over the same time period. The significant increase in PCE concentration in CLC 18 indicates that the optimization of the pumping strategy for CLC 18 (i.e., implementing pulse pumping as opposed to constant rate pumping of impacted groundwater) has been successful, and that the well is no longer capturing a significant amount of uncontaminated water. Steps taken to evaluate system optimization are discussed in Section 2.3.

The treatment system is operating as designed, and is effectively removing PCE; the finished concentration was consistently below detection limits over the reporting period (Table 4).

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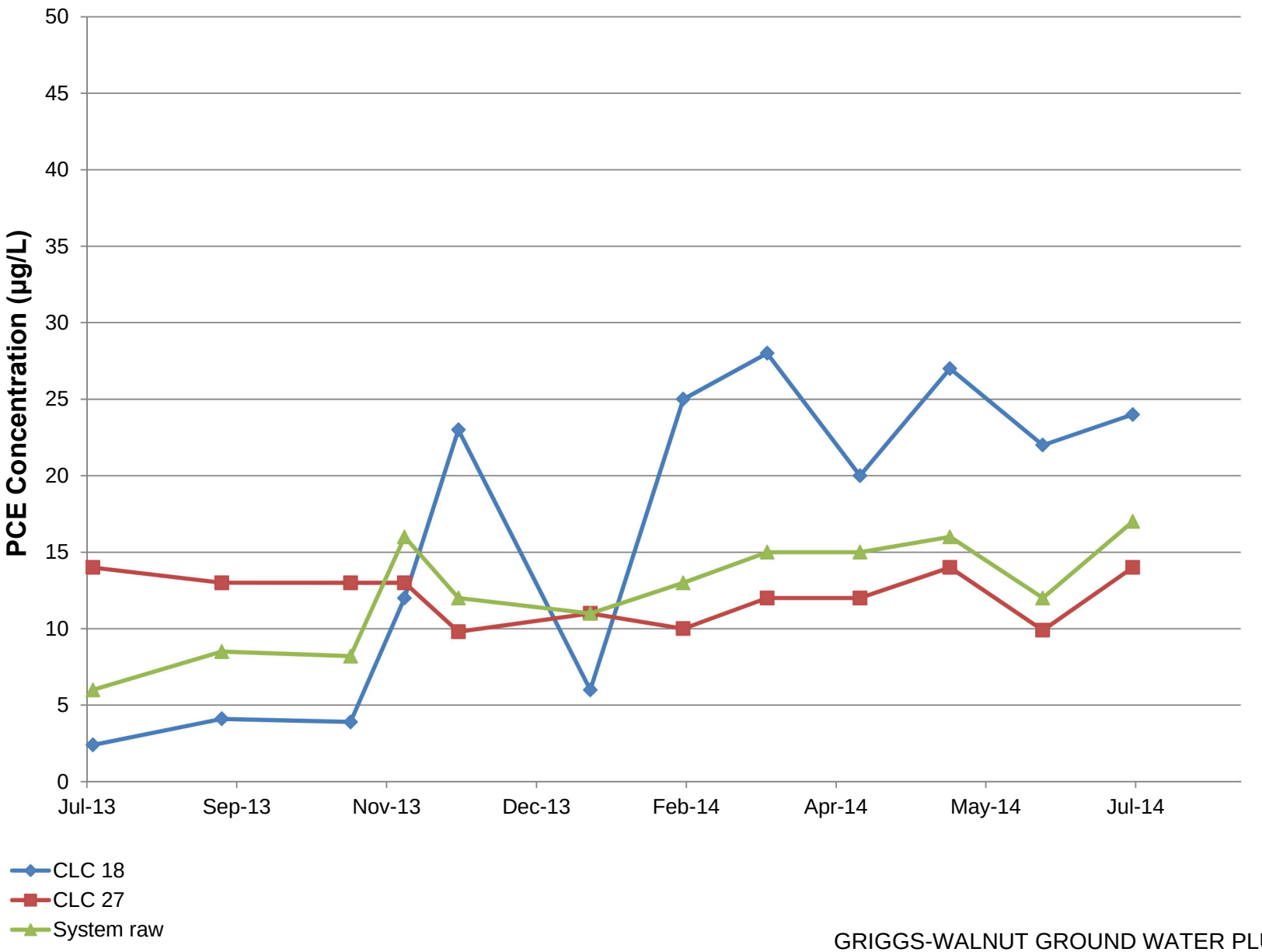


Figure 4

GRIGGS-WALNUT GROUND WATER PLUME SITE
REMEDIAL ACTION

PCE Concentrations Over Reporting Period

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11/3/14

2.1.2 Air Emissions

All of the COCs removed from the groundwater are assumed to be released to the atmosphere. Potential air emissions from the air strippers were calculated based on the raw and finished concentrations of each contaminant. The NMED Air Quality Bureau emissions standards for a No Permit Required (NPR) designation are 10 pounds per hour (lb/hr) and 10 tons per year. The pounds per hour emission rate is calculated by dividing the calculated monthly mass of PCE removed in pounds by the number of hours in a month. The emission rate in tons per year was calculated by summing the calculated mass of PCE removed for the calendar year. The results of these calculations are summarized in Tables 5 and 6.

Table 5. Calculated Air Emissions Based on Measured Raw and Finished Concentrations

Month	Calculated PCE Air Emissions (lb/hr)
Aug 2013	0.001
Sep 2013	0.001
Oct 2013	0.001
Nov 2013	0.001
Dec 2013	0.001
Jan 2014	0.001
Feb 2014	0.001
Mar 2014	0.001
Apr 2014	0.001
May 2014	0.002
Jun 2014	0.001
Jul 2014	0.002

Note: For a conservative calculation, it is assumed that all mass removed (Table 4) is discharged to air.
lb/hr = Pounds per hour
PCE = Perchloroethene

Table 6. Calculated Air Emissions by Year Based on Measured Raw and Finished Concentrations

Contaminant of Concern	Calculated Air Emissions (tons/year)	
	2013	2014
PCE	3.94×10^{-3}	3.40×10^{-3}

The calculated emission rate for PCE is well below limits and the NPR designation is still valid.

2.2 Groundwater Monitoring

Attainment of the remedial action objectives (RAOs) is monitored through the collection of water quality samples from existing monitor wells. Table 7 lists sampling wells identified in the sampling and analysis plan (SAP) (DBS&A, 2011), and the number of samples collected during the last year of operation. Four of the wells, MW-2, MW-6, MWSF-1, and MWSF-3, have collapsed and can no longer be sampled. The port tubing gas feed lines 1 and 2 of GWMW08 have been damaged and have not been sampled.

Table 8 lists the analyses performed on the groundwater samples. One round of sampling occurred during this reporting period in December 2013/January 2014. Tables 9 and 10 summarize results from the May 2013 and December 2013/January 2014 sampling events, respectively. MWSF-4 was sampled for the first time in December 2013, after it was uncovered in the DACTD yard. Complete analytical reports for the December 2013/Janury 2014 sampling event are provided as Appendix A.

Table 7. Wells Included in the Groundwater Monitoring Program

Sample Location	No. of Samples
CLC 18	1
CLC 20	1
CLC 26	1
CLC 27	1
CLC 57	1
CLC Paz Park Well	1
GWMW01	7
GWMW03	6
GWMW08 [b]	5
GWMW09	7
GWMW10	7
GWMW11-S	1
GWMW11-I	1
GWMW11-D	1
GWMW15-S	1
GWMW15-I	1

Sample Location	No. of Samples
GWMW15-D	1
MW-1	1
MW-2	— [a]
MW-3	1
MW-4	1
MW-5	1
MW-6	— [a]
MW-SF1	— [a]
MW-SF2	1
MW-SF3	— [a]
MW-SF4	1
MW-SF5	1
MW-SF6	1
MW-SF9	1
MW-SF10	1

Note: The large number of samples from GWMW01 through GWMW10 reflects the number of sample ports at those wells.

[a] Well not sampled due to obstruction and/or broken casing.

[b] Samples not collected from ports 1 and 2 because of air leak.

Table 8. List of Analytes Reported in 8260 Analysis of Groundwater Samples

Analyte	Units
1,1,1,2-Tetrachloroethane	µg/L
1,1,1-Trichloroethane	µg/L
1,1,2,2-Tetrachloroethane	µg/L
1,1,2-Trichloroethane	µg/L
1,1-Dichloroethane	µg/L
1,1-Dichloroethene	µg/L
1,1-Dichloropropene	µg/L
1,2,3-Trichlorobenzene	µg/L
1,2,3-Trichloropropane	µg/L
1,2,4-Trichlorobenzene	µg/L
1,2,4-Trimethylbenzene	µg/L
1,2-Dibromo-3-chloropropane	µg/L
1,2-Dibromoethane (EDB)	µg/L
1,2-Dichlorobenzene	µg/L
1,2-Dichloroethane (EDC)	µg/L
1,2-Dichloropropane	µg/L
1,3,5-Trimethylbenzene	µg/L
1,3-Dichlorobenzene	µg/L
1,3-Dichloropropane	µg/L
1,4-Dichlorobenzene	µg/L
1-Methylnaphthalene	µg/L
2,2-Dichloropropane	µg/L
2-Butanone	µg/L
2-Chlorotoluene	µg/L
2-Hexanone	µg/L
2-Methylnaphthalene	µg/L
4-Chlorotoluene	µg/L
4-Isopropyltoluene	µg/L
4-Methyl-2-pentanone	µg/L
Acetone	µg/L
Arsenic	mg/L
Benzene	µg/L
Bromobenzene	µg/L
Bromodichloromethane	µg/L
Bromoform	µg/L

Analyte	Units
Bromomethane	µg/L
Carbon disulfide	µg/L
Carbon tetrachloride	µg/L
Chlorobenzene	µg/L
Chloroethane	µg/L
Chloroform	µg/L
Chloromethane	µg/L
cis-1,2-DCE	µg/L
cis-1,3-Dichloropropene	µg/L
Dibromochloromethane	µg/L
Dibromomethane	µg/L
Dichlorodifluoromethane	µg/L
Ethylbenzene	µg/L
Hexachlorobutadiene	µg/L
Isopropylbenzene	µg/L
Methyl tert-butyl ether (MTBE)	µg/L
Methylene chloride	µg/L
Naphthalene	µg/L
n-Butylbenzene	µg/L
n-Propylbenzene	µg/L
sec-Butylbenzene	µg/L
Styrene	µg/L
tert-Butylbenzene	µg/L
Tetrachloroethene (PCE)	µg/L
Toluene	µg/L
trans-1,2-DCE	µg/L
trans-1,3-Dichloropropene	µg/L
Trichloroethene (TCE)	µg/L
Trichlorofluoromethane	µg/L
Uranium	mg/L
Vinyl chloride	µg/L
Xylenes, total	µg/L
pH	s.u.
Temperature	°C
Electrical conductivity	µmhos/cm

Table 9. Analyte Detections, May 2013
Page 1 of 2

Sample ID	Concentration (µg/L)												
	1,2,4-TMB	2-Methyl Naphthalene	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	MEK	MTBE	Napthalene	n-Propyl-benzene	PCE	Toluene	TCE
CLC 18	—	—	—	—	—	—	—	—	—	—	2.7	—	—
CLC 27	—	—	—	—	—	—	—	—	—	—	14	—	—
Paz Park	—	—	—	—	—	—	—	1.0	—	—	—	—	—
MW-1	73	28	—	14	230	13	—	13	49	36	—	—	—
MW-3	—	—	—	—	—	—	—	—	—	—	2.4	—	—
MW-4	—	—	—	—	—	—	—	—	—	—	4.2	—	—
MW-SF2	—	—	—	—	—	—	—	—	—	—	7.4	—	—
MW-SF10	—	—	—	—	—	—	—	—	—	—	10	—	—
GWMW-01(1)	—	—	—	—	—	—	—	—	—	—	11	1.4	—
GWMW-01(3)	—	—	—	1.0	—	—	—	—	—	—	3.2	4.9	—
GWMW-01(3-Dup)	—	—	—	1.5	—	—	—	—	—	—	1.5	6.2	—
GWMW-01(4)	—	—	—	1.2	—	—	—	—	—	—	—	4.5	—
GWMW-01(5)	—	—	—	—	—	—	—	—	—	—	—	3.1	—
GWMW-01(6)	—	—	—	—	—	—	—	—	—	—	14	3.1	—
GWMW-01(7)	—	—	—	—	—	—	—	—	—	—	3.6	3.6	—
GWMW-03(1)	—	—	19	1.5	—	—	18	—	—	—	—	14	—
GWMW-03 (1-Dup)	—	—	—	—	—	—	—	—	—	—	—	7.3	—
GWMW-03(2)	—	—	15	2.2	—	—	—	—	—	—	—	24	—
GWMW-03(3)	—	—	—	1.3	—	—	66	—	—	—	—	15	—
GWMW-03(4)	—	—	20	3.6	—	—	—	—	—	—	—	16	—
GWMW-03(5)	—	—	—	2.8	—	—	—	—	—	—	—	21	—
GWMW-03(6)	—	—	—	2.9	—	—	—	—	—	—	—	23	—
GWMW-08(3)	—	—	—	1.1	—	—	—	—	—	—	—	7.8	—
GWMW-08(3-Dup)	—	—	—	—	—	—	—	—	—	—	—	6.4	—
GWMW-08(4)	—	—	—	—	—	—	—	—	—	—	—	6.3	—
GWMW-08(5)	—	—	—	—	—	—	—	—	—	—	—	6.2	—
GWMW-08(6)	—	—	—	—	—	—	—	—	—	—	—	6.1	—
GWMW-08(7)	—	—	55	3.0	—	—	13	2.4	—	—	—	13	—
GWMW-09(1)	—	—	—	—	—	—	—	—	—	—	—	73	—
GWMW-09 (1-Dup)	—	—	—	—	—	—	—	—	—	—	—	83	—
GWMW-09 (2)	—	—	—	—	—	—	—	—	—	—	—	46	—
GWMW-09(3)	—	—	—	—	—	—	—	—	—	—	—	32	—

µg/L = Micrograms per liter
TMB = Trimethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary-butyl ether
PCE = Perchloroethene
TCE = Trichloroethene
— = Not detected above laboratory reporting limit

Table 9. Analyte Detections, May 2013
Page 2 of 2

Sample ID	Concentration (µg/L)												
	1,2,4-TMB	2-Methyl Naphthalene	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	MEK	MTBE	Napthalene	n-Propyl-benzene	PCE	Toluene	TCE
GWMW-09(4)	—	—	34	1.9	—	—	—	—	—	—	—	21	—
GWMW-09(5)	—	—	—	—	—	—	—	—	—	—	—	14	—
GWMW-09(6)	—	—	—	—	—	—	—	—	—	—	—	32	—
GWMW-09(7)	—	—	—	—	—	—	—	—	—	—	—	43	—
GWMW-10(2)	—	—	14	1.8	—	—	—	—	—	—	7.1	9.6	1.5
GWMW-10(3)	—	—	—	—	—	—	—	—	—	—	42	4.6	1.3
GWMW-10(4)	—	—	24	1.2	—	—	—	—	—	—	3.7	15	—
GWMW-10(5)	—	—	32	1.2	—	—	—	—	—	—	—	16	—
GWMW-10(5-Dup)	—	—	—	—	—	—	—	—	—	—	—	11	—
GWMW-10(6)	—	—	—	—	—	—	—	—	—	—	—	12	—
GWMW-10(7)	—	—	—	—	—	—	—	—	—	—	—	3.4	—

µg/L = Micrograms per liter
TMB = Trimethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary-butyl ether
PCE = Perchloroethene
TCE = Trichloroethene
— = Not detected above laboratory reporting limit

Table 10. Analyte Detections, December 2013/January 2014
Page 1 of 2

Sample ID	Concentration (µg/L)												
	1,2,4-TMB	2-Methyl Naphthalene	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	MEK	MTBE	Napthalene	n-Propyl-benzene	PCE	Toluene	TCE
CLC 18	—	—	—	—	—	—	—	—	—	—	6	—	—
CLC 27	—	—	—	—	—	—	—	—	—	—	11	—	—
MW-1	2.7	—	—	1	—	1.2	—	1.3	—	5.9	—	—	—
MW-4	—	—	—	—	—	—	—	—	—	—	1.6	—	—
MW-SF2	—	—	—	—	—	—	—	—	—	—	7.5	—	—
MW-SF10	—	—	—	—	—	—	—	—	—	—	12	—	—
MW-SF10 (Dup)	—	—	—	—	—	—	—	—	—	—	11	—	—
GWMW-01(1)	—	—	13	1.3	—	—	—	—	—	—	1.3	5.2	—
GWMW-01(1-Dup)	—	—	—	1.3	—	—	—	—	—	—	1.3	5.3	—
GWMW-01(3)	—	—	—	1.4	—	—	—	—	—	—	2	4.8	—
GWMW-01(4)	—	—	—	1.1	—	—	—	—	—	—	—	3.8	—
GWMW-01(6)	—	—	—	1.2	—	—	—	—	—	—	8	2.7	—
GWMW-01(6-Dup)	—	—	—	1.2	—	—	—	—	—	—	8.2	2.9	—
GWMW-01(7)	—	—	—	1.2	—	—	—	—	—	—	2.3	3.5	—
GWMW-03(1)	—	—	12	—	—	—	14	—	—	—	—	10	—
GWMW-03(2)	—	—	23	2.2	—	—	10	—	—	—	—	23	—
GWMW-03(3)	—	—	—	1.2	—	—	79	—	—	—	—	15	—
GWMW-03(6)	—	—	—	2	—	—	—	—	—	—	—	21	—
GWMW-08(3)	—	—	—	—	—	—	—	—	—	—	—	6	—
GWMW-08(4)	—	—	—	—	—	—	—	—	—	—	—	5.6	—
GWMW-08(5)	—	—	—	—	—	—	—	—	—	—	—	6.4	—
GWMW-08(6)	—	—	—	—	—	—	—	—	—	—	—	5.8	—
GWMW-08(7)	—	—	47	2.7	—	—	21	1.8	—	—	—	11	—
GWMW-09(1)	—	—	18	1.6	—	—	—	3.7	—	—	—	26	—
GWMW-09 (2)	—	—	—	2.2	—	—	—	1.2	—	—	—	23	—
GWMW-09(3)	—	—	—	3.9	—	—	—	—	—	—	1	40	—
GWMW-09(4)	—	—	—	3.2	—	—	—	—	—	—	7.9	61	—
GWMW-09(5)	—	—	25	4	—	—	—	—	—	—	1.5	51	—
GWMW-09(6)	—	—	—	2.1	—	—	—	—	—	—	—	39	—
GWMW-09(7)	—	—	—	2.2	—	—	—	—	—	—	—	51	—
GWMW-10(1)	—	—	—	—	—	—	—	—	—	—	26	1.5	—
GWMW-10(2)	—	—	—	1.5	—	—	—	—	—	—	11	7.2	1.9

µg/L = Micrograms per liter
TMB = Trimethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary-butyl ether
PCE = Perchloroethene
TCE = Trichloroethene
— = Not detected above laboratory reporting limit

Table 10. Analyte Detections, December 201/January 2014
Page 2 of 2

Sample ID	Concentration (µg/L)												
	1,2,4-TMB	2-Methyl Naphthalene	Acetone	Benzene	Ethylbenzene	Isopropyl-benzene	MEK	MTBE	Napthalene	n-Propyl-benzene	PCE	Toluene	TCE
GWMW-10(2-Dup)	—	—	—	1.5	—	—	—	—	—	—	11	8	1.8
GWMW-10(3)	—	—	—	—	—	—	—	—	—	—	25	5.3	—
GWMW-10(3-Dup)	—	—	—	—	—	—	—	—	—	—	28	5.5	—
GWMW-10(4)	—	—	14	—	—	—	—	—	—	—	1.3	8.6	—
GWMW-10(5)	—	—	17	—	—	—	—	—	—	—	—	12	—
GWMW-10(6)	—	—	—	—	—	—	—	—	—	—	—	9.4	—
GWMW-10(7)	—	—	—	1.4	—	—	—	—	—	—	—	13	—
GWMW-15-I	—	—	—	—	—	—	—	—	—	—	1.1	—	—

µg/L = Micrograms per liter
TMB = Trimethylbenzene
MEK = Methyl ethyl ketone
MTBE = Methyl tertiary-butyl ether
PCE = Perchloroethene
TCE = Trichloroethene
— = Not detected above laboratory reporting limit

Trichloroethylene (TCE) was the only PCE degradation product detected in groundwater. TCE was detected in port 2 of well GWMW10 at a concentration of 1.9 µg/L. The remaining compounds detected were fuel hydrocarbons, with benzene and toluene detected in most of the wells sampled. Acetone was also identified in multiport wells GWMW03, GWMW08, GWMW09, and GWMW10, but not in any of the standard wells at the site. The acetone detected in these wells is thought to be related to well construction activities, and is not indicative of a contaminant release scenario.

Figure 3 shows the extent of the PCE plume boundary based on the most recent groundwater monitoring event. The morphology of the dissolved-phase PCE plume remains unchanged since the last sampling event in May 2013, and a comparison of Tables 9 and 10 reveals relatively stable concentrations in the vicinity of the historical source of contamination.

2.3 System Optimization

System optimization includes two key components:

- Adjusting the pumping strategy to maximize the concentrations of PCE and other COCs in the raw water to the treatment plant, while at the same time minimizing the volume of water treated
- Ensuring that the treatment plant is efficiently removing all COCs from the raw water and returning potable water to the public water system

During spring of 2013, the JSP worked with JSAI to evaluate the efficiency of CLC 18 and CLC 27 and to make recommendations regarding changes to the pumping strategies for these wells. The evaluation performed by JSAI included pumping CLC 18 at various rates and collecting groundwater samples that were analyzed for VOCs and total dissolved solids. Beginning in September 2013, CLC 18 was pumped for 4 hours per day (from 9:00 a.m. to 1:00 p.m.) at a rate of 170 gallons per minute (gpm). This downtime allowed the well to recover, and thus optimized the removal of PCE through the removal of high concentrations of contaminated water that is in shallower portions of the aquifer. Following this change, the PCE concentration in CLC 18 steadily increased until it stabilized in February around 25 µg/L.

A system optimization test for CLC 27 was carried out between November 2013 and January 2014. The test required the pump to run for 30-day intervals at an increasing rate of 20 gpm, beginning at 130 gpm and finishing at 170 gpm. The goal of this test was to see how PCE concentrations were impacted by the higher pumping rates. During this time PCE concentrations remained stable between 9.8 and 13 µg/L, indicating that increasing the pumping rate allowed for a greater mass removal during the same period of time.

To determine if the system optimization was successful, the results of the past two years were analyzed to determine a mass removal rate. From August 2012 through July 2013, 181,325,776 gallons of water were treated and 8.9 pounds of PCE were removed, resulting in a mass removal rate of 4.9×10^{-8} pounds per gallon (lb/gal). As reported in Table 4, the total volume of water treated from August 2013 through July 2014 is 106,617,377 gallons with 10 pounds of PCE removed, resulting in a mass removal rate of 9.3×10^{-8} lb/gal. These results document the success of the system optimization, as the PCE mass removal rate has almost doubled.

2.4 Progress Toward Attaining Performance Standards

The JSP has met all performance standards to date, including submitting all documents required by the SOW from the Modified Administrative Order. The JSP has consistently operated the remediation system to extract PCE-contaminated water and treat it to concentrations below the MCL.

The uranium concentrations in CLC 18 and CLC 27 are below the EPA MCL of 30 µg/L. Arsenic concentrations in wells CLC 18 and CLC 27 are below the EPA MCL of 10 µg/L. No additional treatment to remove these contaminants is required at this time.

Although PCE degradation products (i.e., TCE, cis-1,2-dichloroethene [DCE], and trans-1,2-DCE), as well as benzene, and uranium, were discussed in the ROD, the only remediation goal established was the SDWA MCL of 5 µg/L for PCE. The remediation goal is being met by the complete removal of PCE and removal of TCE, cis-1,2-DCE, and trans-1,2-DCE to concentrations below MCLs by the air stripper (Table 4). Additionally, the

extent of groundwater with PCE concentrations higher than the remediation goal is decreasing, as discussed in Section 2.5.

2.5 Progress Toward Remedial Action Objectives

As outlined in the site ROD, the RAOs for groundwater at the GWP site were established in accordance with the *Presumptive Response Strategy and Ex Situ Treatment Technologies for Contaminated Ground Water at CERCLA Sites*, and are provided as follows:

- Prevent human exposure to contaminated groundwater with PCE concentrations above the MCL (5 µg/L).
- Maintain capture of the PCE-contaminated groundwater plume above the MCL (5 µg/L).
- Restore groundwater to its beneficial use as a drinking water supply with PCE concentrations no greater than the MCL (5 µg/L).

To address the first RAO, the JSP worked with the OSE to put a new well drilling moratorium in place for the area in and adjacent to the PCE plume at the GWP site. The CLC has also ceased pumping wells within the plume that are not part of the extraction system for the GWP site. These two measures are effectively addressing this RAO. Table 11 illustrates the progress of the project toward addressing the third RAO of restoring groundwater to its beneficial use by showing groundwater PCE concentration over time.

Table 11. PCE Concentrations in Groundwater
Page 1 of 2

Well	PCE Concentration (µg/L)		
	2012	2013	2014
CLC Paz Park Well	<1	<1	<1
CLC 18	56	2.7	6
CLC 20	NS	<1	<1
CLC 26	<1	<1	<1
CLC 27	13	14	11
CLC 57	NS	<1	<1
GWMW01-01	5.8	11	1.3
GWMW01-02	<1	<1	<1
GWMW01-03	2.7	3.2	2
GWMW01-04	<1	<1	<1
GWMW01-05	3.2	<1	<1
GWMW01-06	11	14	8
GWMW01-07	3.2	3.6	2.3
GWMW03-01	<1	<1	<1
GWMW03-02	<1	<1	<1
GWMW03-03	<1	<1	<1
GWMW03-04	NS	<1	<1
GWMW03-05	<1	<1	<1
GWMW03-06	<1	<1	<1
GWMW08-03	<1	<1	<1
GWMW08-04	<1	<1	<1
GWMW08-05	<1	<1	<1
GWMW08-06	<1	<1	<1
GWMW08-07	<1	<1	<1
GWMW09-01	<1	<10	<1
GWMW09-02	1.3	<20	<1
GWMW09-03	<1	<10	1
GWMW09-04	1.2	<1	7.9
GWMW09-05	1.7	<10	1.5
GWMW09-06	<1	<10	<1
GWMW09-07	<1	<10	<1
GWMW10-01	47	<1	26
GWMW10-02	14	7.1	11
GWMW10-03	45	42	25

PCE = Perchloroethene
µg/L = Micrograms per liter
NS = Not sampled

Table 11. PCE Concentrations in Groundwater
Page 2 of 2

Well	PCE Concentration (µg/L)		
	2012	2013	2014
GWMW10-04	4.5	3.7	1.3
GWMW10-05	<1	<1	<1
GWMW10-06	<1	<1	<1
GWMW10-07	<1	<1	<1
GWMW11-D	<1	<1	<1
GWMW11-I	<1	<1	<1
GWMW11-S	<1	<1	<1
GWMW15-D	<1	<1	<1
GWMW15-I	2.3	<1	1.1
GWMW15-S	<1	<1	<1
MW-1	<10	<5	<1
MW-3	3.6	2.4	<1
MW-4	1.1	4.2	1.6
MW-5	<1	<1	<1
MW-6	2.3	NS	NS
MW-SF1	9.6	NS	NS
MW-SF10	9.5	10	12
MW-SF2	11	7.4	7.5
MW-SF4	NS	NS	<1
MW-SF5	<1	<1	<1
MW-SF6	<1	<1	<1
MW-SF9	<1	<1	<1

PCE = Perchloroethene
µg/L = Micrograms per liter
NS = Not sampled

3. Conclusions

Significant progress has been made toward achieving RAOs, as follows:

- More than 287,943153 gallons of groundwater have been extracted from the dissolved-phase plume at the GWP site.
- More than 24 pounds of PCE have been removed from the extracted groundwater.
- COCs have not been detected in the treated groundwater that has been returned to the PWS distribution system at the Griggs Reservoir.
- Groundwater monitoring has shown that the PCE plume has decreased in volume.

References

CH2M Hill. 2006a. *Remedial investigation report, Version 1.2, Griggs and Walnut Ground Water Plume Superfund Site, Las Cruces, New Mexico*. November 2006.

CH2M Hill. 2006b. *Feasibility study report, Version 1.2, Griggs and Walnut Ground Water Plume Superfund Site, Las Cruces, New Mexico*. November 2006.

Daniel B. Stephens & Associates, Inc. (DBS&A). 2011. *Sampling and analysis plan, Griggs-Walnut Ground Water Plume Site remedial design*. Prepared for the Joint Superfund Project, Las Cruces, New Mexico. March 3, 2011.

Terracon. 2010. *Limited groundwater monitoring report, Inorganic water quality sampling & testing, City of Las Cruces wells 18 & 27, Griggs and Walnut Groundwater Plume Superfund Site, Las Cruces, Doña Ana County, New Mexico*. December 2010.

U.S. Environmental Protection Agency (U.S. EPA). 2006. *Proposed plan, Griggs and Walnut Ground Water Plume, Las Cruces, NM, Doña Ana County*. December 2006.

U.S. EPA. 2007. *Record of decision, Griggs and Walnut Ground Water Plume Superfund Site*. June 2007.

Appendix A

Laboratory Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 19, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1307570

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/12/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1307570**
Date Reported: **7/19/2013**

CLIENT: City of Las Cruces
Client Sample ID: AS2-130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:32:00 AM
Lab ID: 1307570-001 **Matrix:** AIR
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Toluene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Ethylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Naphthalene	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
1-Methylnaphthalene	ND	0.40		µg/L	1	7/17/2013 1:51:18 PM	R12017
2-Methylnaphthalene	ND	0.40		µg/L	1	7/17/2013 1:51:18 PM	R12017
Acetone	ND	1.0		µg/L	1	7/17/2013 1:51:18 PM	R12017
Bromobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Bromodichloromethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Bromoform	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Bromomethane	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
2-Butanone	ND	1.0		µg/L	1	7/17/2013 1:51:18 PM	R12017
Carbon disulfide	ND	1.0		µg/L	1	7/17/2013 1:51:18 PM	R12017
Carbon tetrachloride	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Chlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Chloroethane	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
Chloroform	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Chloromethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
2-Chlorotoluene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
4-Chlorotoluene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
cis-1,2-DCE	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
Dibromochloromethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Dibromomethane	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,3-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,4-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Dichlorodifluoromethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1-Dichloroethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1-Dichloroethene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,3-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
2,2-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:32:00 AM
Lab ID: 1307570-001 **Matrix:** AIR
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Hexachlorobutadiene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
2-Hexanone	ND	1.0		µg/L	1	7/17/2013 1:51:18 PM	R12017
Isopropylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
4-Isopropyltoluene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
4-Methyl-2-pentanone	ND	1.0		µg/L	1	7/17/2013 1:51:18 PM	R12017
Methylene chloride	ND	0.30		µg/L	1	7/17/2013 1:51:18 PM	R12017
n-Butylbenzene	ND	0.30		µg/L	1	7/17/2013 1:51:18 PM	R12017
n-Propylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
sec-Butylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Styrene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
tert-Butylbenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Tetrachloroethene (PCE)	0.15	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
trans-1,2-DCE	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1,1-Trichloroethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,1,2-Trichloroethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Trichloroethene (TCE)	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Trichlorofluoromethane	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
1,2,3-Trichloropropane	ND	0.20		µg/L	1	7/17/2013 1:51:18 PM	R12017
Vinyl chloride	ND	0.10		µg/L	1	7/17/2013 1:51:18 PM	R12017
Xylenes, Total	ND	0.15		µg/L	1	7/17/2013 1:51:18 PM	R12017
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	1	7/17/2013 1:51:18 PM	R12017
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	7/17/2013 1:51:18 PM	R12017
Surr: Dibromofluoromethane	95.4	70-130		%REC	1	7/17/2013 1:51:18 PM	R12017
Surr: Toluene-d8	95.7	70-130		%REC	1	7/17/2013 1:51:18 PM	R12017

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:35:00 AM
Lab ID: 1307570-002 **Matrix:** AIR
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Toluene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Ethylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Naphthalene	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
1-Methylnaphthalene	ND	0.40		µg/L	1	7/17/2013 2:19:53 PM	R12017
2-Methylnaphthalene	ND	0.40		µg/L	1	7/17/2013 2:19:53 PM	R12017
Acetone	ND	1.0		µg/L	1	7/17/2013 2:19:53 PM	R12017
Bromobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Bromodichloromethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Bromoform	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Bromomethane	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
2-Butanone	ND	1.0		µg/L	1	7/17/2013 2:19:53 PM	R12017
Carbon disulfide	ND	1.0		µg/L	1	7/17/2013 2:19:53 PM	R12017
Carbon tetrachloride	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Chlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Chloroethane	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
Chloroform	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Chloromethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
2-Chlorotoluene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
4-Chlorotoluene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
cis-1,2-DCE	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
Dibromochloromethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Dibromomethane	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,3-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,4-Dichlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Dichlorodifluoromethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1-Dichloroethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1-Dichloroethene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,3-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
2,2-Dichloropropane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:35:00 AM
Lab ID: 1307570-002 **Matrix:** AIR
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Hexachlorobutadiene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
2-Hexanone	ND	1.0		µg/L	1	7/17/2013 2:19:53 PM	R12017
Isopropylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
4-Isopropyltoluene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
4-Methyl-2-pentanone	ND	1.0		µg/L	1	7/17/2013 2:19:53 PM	R12017
Methylene chloride	ND	0.30		µg/L	1	7/17/2013 2:19:53 PM	R12017
n-Butylbenzene	ND	0.30		µg/L	1	7/17/2013 2:19:53 PM	R12017
n-Propylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
sec-Butylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Styrene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
tert-Butylbenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Tetrachloroethene (PCE)	0.17	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
trans-1,2-DCE	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1,1-Trichloroethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,1,2-Trichloroethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Trichloroethene (TCE)	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Trichlorofluoromethane	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
1,2,3-Trichloropropane	ND	0.20		µg/L	1	7/17/2013 2:19:53 PM	R12017
Vinyl chloride	ND	0.10		µg/L	1	7/17/2013 2:19:53 PM	R12017
Xylenes, Total	ND	0.15		µg/L	1	7/17/2013 2:19:53 PM	R12017
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%REC	1	7/17/2013 2:19:53 PM	R12017
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	7/17/2013 2:19:53 PM	R12017
Surr: Dibromofluoromethane	89.5	70-130		%REC	1	7/17/2013 2:19:53 PM	R12017
Surr: Toluene-d8	95.1	70-130		%REC	1	7/17/2013 2:19:53 PM	R12017

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1307570 RcptNo: 1

Received by/date: 07/12/13

Logged By: **Lindsay Mangin** 7/12/2013 9:45:00 AM

Completed By: **Lindsay Mangin** 7/12/2013 1:05:50 PM

Reviewed By: 07/12/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC JOINT Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☑ No

Sample Temperature: N/A

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1307570	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
7/11/13	1132	AIR	AS2-130711	1 Liter Tedlar bag	NONE	-001										X						
7/11/13	1135	AIR	AS1-130711	"	NONE	-002										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/11/13	1500	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	07/12/13	0915

Remarks: Email Reports to Luis Guerra at lguerra@las-cruces.org
Send INVOICE to CLC % Luis Guerra

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 18, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1307571

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/12/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1307571**
Date Reported: **7/18/2013**

CLIENT: City of Las Cruces
Client Sample ID: ES1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:07:00 AM
Lab ID: 1307571-001 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 3:40:18 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Bromodichloromethane	3.0	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Bromoform	3.5	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 3:40:18 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 3:40:18 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Chloroform	1.8	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Dibromochloromethane	5.0	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:07:00 AM
Lab ID: 1307571-001 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 3:40:18 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 3:40:18 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 3:40:18 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 3:40:18 AM	R11985
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	7/17/2013 3:40:18 AM	R11985
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	7/17/2013 3:40:18 AM	R11985
Surr: Dibromofluoromethane	105	70-130		%REC	1	7/17/2013 3:40:18 AM	R11985
Surr: Toluene-d8	97.7	70-130		%REC	1	7/17/2013 3:40:18 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:11:00 AM
Lab ID: 1307571-002
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 4:09:01 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 4:09:01 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 4:09:01 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:11:00 AM
Lab ID: 1307571-002
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 4:09:01 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 4:09:01 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 4:09:01 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 4:09:01 AM	R11985
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	7/17/2013 4:09:01 AM	R11985
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	7/17/2013 4:09:01 AM	R11985
Surr: Dibromofluoromethane	109	70-130		%REC	1	7/17/2013 4:09:01 AM	R11985
Surr: Toluene-d8	98.1	70-130		%REC	1	7/17/2013 4:09:01 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130711 DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:12:00 AM
Lab ID: 1307571-003 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 4:37:45 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 4:37:45 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 4:37:45 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130711 DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:12:00 AM
Lab ID: 1307571-003 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 4:37:45 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 4:37:45 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 4:37:45 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 4:37:45 AM	R11985
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	7/17/2013 4:37:45 AM	R11985
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	7/17/2013 4:37:45 AM	R11985
Surr: Dibromofluoromethane	106	70-130		%REC	1	7/17/2013 4:37:45 AM	R11985
Surr: Toluene-d8	94.5	70-130		%REC	1	7/17/2013 4:37:45 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:16:00 AM
Lab ID: 1307571-004
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 5:06:27 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 5:06:27 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 5:06:27 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:16:00 AM
Lab ID: 1307571-004
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 5:06:27 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 5:06:27 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 5:06:27 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 5:06:27 AM	R11985
Surr: 1,2-Dichloroethane-d4	110	70-130		%REC	1	7/17/2013 5:06:27 AM	R11985
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	7/17/2013 5:06:27 AM	R11985
Surr: Dibromofluoromethane	109	70-130		%REC	1	7/17/2013 5:06:27 AM	R11985
Surr: Toluene-d8	95.3	70-130		%REC	1	7/17/2013 5:06:27 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:21:00 AM
Lab ID: 1307571-005 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 5:35:14 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 5:35:14 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 5:35:14 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:21:00 AM
Lab ID: 1307571-005 **Matrix:** AQUEOUS **Received Date:** 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 5:35:14 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 5:35:14 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Tetrachloroethene (PCE)	6.0	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 5:35:14 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 5:35:14 AM	R11985
Surr: 1,2-Dichloroethane-d4	112	70-130		%REC	1	7/17/2013 5:35:14 AM	R11985
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	7/17/2013 5:35:14 AM	R11985
Surr: Dibromofluoromethane	112	70-130		%REC	1	7/17/2013 5:35:14 AM	R11985
Surr: Toluene-d8	95.8	70-130		%REC	1	7/17/2013 5:35:14 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:26:00 AM
Lab ID: 1307571-006
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 6:04:01 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 6:04:01 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 6:04:01 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:26:00 AM
Lab ID: 1307571-006
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 6:04:01 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 6:04:01 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Tetrachloroethene (PCE)	3.1	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 6:04:01 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 6:04:01 AM	R11985
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	7/17/2013 6:04:01 AM	R11985
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	7/17/2013 6:04:01 AM	R11985
Surr: Dibromofluoromethane	108	70-130		%REC	1	7/17/2013 6:04:01 AM	R11985
Surr: Toluene-d8	98.3	70-130		%REC	1	7/17/2013 6:04:01 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:52:00 AM
Lab ID: 1307571-007
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Benzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Toluene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Ethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Naphthalene	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Acetone	ND	10		µg/L	1	7/17/2013 6:32:46 AM	R11985
Bromobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Bromoform	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Bromomethane	ND	3.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
2-Butanone	ND	10		µg/L	1	7/17/2013 6:32:46 AM	R11985
Carbon disulfide	ND	10		µg/L	1	7/17/2013 6:32:46 AM	R11985
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Chlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Chloroethane	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Chloroform	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Chloromethane	ND	3.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Dibromomethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_130711
Project: CLC Joint Superfund Process Center
Collection Date: 7/11/2013 11:52:00 AM
Lab ID: 1307571-007
Matrix: AQUEOUS
Received Date: 7/12/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **CWS**	
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
2-Hexanone	ND	10		µg/L	1	7/17/2013 6:32:46 AM	R11985
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2013 6:32:46 AM	R11985
Methylene Chloride	ND	3.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
n-Butylbenzene	ND	3.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Styrene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Tetrachloroethene (PCE)	11	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Vinyl chloride	ND	1.0		µg/L	1	7/17/2013 6:32:46 AM	R11985
Xylenes, Total	ND	1.5		µg/L	1	7/17/2013 6:32:46 AM	R11985
Surr: 1,2-Dichloroethane-d4	114	70-130		%REC	1	7/17/2013 6:32:46 AM	R11985
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	7/17/2013 6:32:46 AM	R11985
Surr: Dibromofluoromethane	113	70-130		%REC	1	7/17/2013 6:32:46 AM	R11985
Surr: Toluene-d8	95.3	70-130		%REC	1	7/17/2013 6:32:46 AM	R11985

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1307571**
18-Jul-13

Client: City of Las Cruces
Project: CLC Joint Superfund Process Center

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R11985**	RunNo: **11985**
Prep Date:	Analysis Date: **7/16/2013**	SeqNo: **340830** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307571**

18-Jul-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R11985**	RunNo: **11985**
Prep Date:	Analysis Date: **7/16/2013**	SeqNo: **340830** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R11985**	RunNo: **11985**
Prep Date:	Analysis Date: **7/16/2013**	SeqNo: **340832** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	19	1.0	20.00	0	94.0	80	120			
Chlorobenzene	17	1.0	20.00	0	86.5	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.7	85.8	133			
Trichloroethene (TCE)	19	1.0	20.00	0	94.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307571**

18-Jul-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID	**100ng lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8260B: VOLATILES**					
Client ID:	**LCSW**	Batch ID:	**R11985**	RunNo:	**11985**					
Prep Date:		Analysis Date:	**7/16/2013**	SeqNo:	**340832**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	9.2		10.00		92.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1307571 RcptNo: 1

Received by/date: 07/12/13

Logged By: **Lindsay Mangin** 7/12/2013 9:45:00 AM

Completed By: **Lindsay Mangin** 7/12/2013 1:14:57 PM

Reviewed By: IO 07/12/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC JOINT Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1307571
7/11/13	1107	Drink H2O	ES1-130711	3-40ml Vial	HgCl2	-001
7/11/13	1111	"	C2-130711	3-40ml Vial	"	-002
7/11/13	1112	"	C2-130711 DUPE	3-40ml Vial	"	-003
7/11/13	1116	"	C1-130711	3-40ml Vial	"	-004
7/11/13	1121	Drink H2O	IS1-130711	3-40ml Vial	HgCl2	-005
7/11/13	1126	Drink H2O	CLC 18-130711	3-40ml Vial	HgCl2	-006
7/11/13	1152	Drink H2O	CLC 27-130711	3-40ml Vial	HgCl2	-007

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)						
									X							
									X							
									X							
									X							
									X							
									X							
									X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/11/13	1500	Laura Montoya		07/12/13	0946
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email Reports to Luis Guerra @ lguerra@las-cruces.org
Send INVOICE to CLC c/o Luis Guerra

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 15, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process CTR. OrderNo.: 1308400

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/9/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1308400**
Date Reported: **8/15/2013**

CLIENT: City of Las Cruces
Client Sample ID: AS2-130808
Project: CLC Joint Superfund Process CTR.
Collection Date: 8/8/2013 10:21:00 AM
Lab ID: 1308400-001 **Matrix:** AIR
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Toluene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Ethylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Naphthalene	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
1-Methylnaphthalene	ND	0.40		µg/L	1	8/12/2013 10:37:47 AM	R12567
2-Methylnaphthalene	ND	0.40		µg/L	1	8/12/2013 10:37:47 AM	R12567
Acetone	ND	1.0		µg/L	1	8/12/2013 10:37:47 AM	R12567
Bromobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Bromodichloromethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Bromoform	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Bromomethane	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
2-Butanone	ND	1.0		µg/L	1	8/12/2013 10:37:47 AM	R12567
Carbon disulfide	ND	1.0		µg/L	1	8/12/2013 10:37:47 AM	R12567
Carbon tetrachloride	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Chlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Chloroethane	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
Chloroform	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Chloromethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
2-Chlorotoluene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
4-Chlorotoluene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
cis-1,2-DCE	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
Dibromochloromethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Dibromomethane	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2-Dichlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,3-Dichlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,4-Dichlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Dichlorodifluoromethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1-Dichloroethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1-Dichloroethene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,3-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
2,2-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-130808
Project: CLC Joint Superfund Process CTR.
Collection Date: 8/8/2013 10:21:00 AM
Lab ID: 1308400-001 **Matrix:** AIR
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Hexachlorobutadiene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
2-Hexanone	ND	1.0		µg/L	1	8/12/2013 10:37:47 AM	R12567
Isopropylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
4-Isopropyltoluene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
4-Methyl-2-pentanone	ND	1.0		µg/L	1	8/12/2013 10:37:47 AM	R12567
Methylene chloride	ND	0.30		µg/L	1	8/12/2013 10:37:47 AM	R12567
n-Butylbenzene	ND	0.30		µg/L	1	8/12/2013 10:37:47 AM	R12567
n-Propylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
sec-Butylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Styrene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
tert-Butylbenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
trans-1,2-DCE	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1,1-Trichloroethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,1,2-Trichloroethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Trichloroethene (TCE)	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Trichlorofluoromethane	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
1,2,3-Trichloropropane	ND	0.20		µg/L	1	8/12/2013 10:37:47 AM	R12567
Vinyl chloride	ND	0.10		µg/L	1	8/12/2013 10:37:47 AM	R12567
Xylenes, Total	ND	0.15		µg/L	1	8/12/2013 10:37:47 AM	R12567
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%REC	1	8/12/2013 10:37:47 AM	R12567
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	8/12/2013 10:37:47 AM	R12567
Surr: Dibromofluoromethane	95.0	70-130		%REC	1	8/12/2013 10:37:47 AM	R12567
Surr: Toluene-d8	100	70-130		%REC	1	8/12/2013 10:37:47 AM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-130808
Project: CLC Joint Superfund Process CTR.
Collection Date: 8/8/2013 10:25:00 AM
Lab ID: 1308400-002 **Matrix:** AIR
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Toluene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Ethylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Naphthalene	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
1-Methylnaphthalene	ND	0.40		µg/L	1	8/12/2013 11:35:26 AM	R12567
2-Methylnaphthalene	ND	0.40		µg/L	1	8/12/2013 11:35:26 AM	R12567
Acetone	ND	1.0		µg/L	1	8/12/2013 11:35:26 AM	R12567
Bromobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Bromodichloromethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Bromoform	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Bromomethane	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
2-Butanone	ND	1.0		µg/L	1	8/12/2013 11:35:26 AM	R12567
Carbon disulfide	ND	1.0		µg/L	1	8/12/2013 11:35:26 AM	R12567
Carbon tetrachloride	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Chlorobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Chloroethane	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
Chloroform	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Chloromethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
2-Chlorotoluene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
4-Chlorotoluene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
cis-1,2-DCE	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
Dibromochloromethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Dibromomethane	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2-Dichlorobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
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1,4-Dichlorobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Dichlorodifluoromethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1-Dichloroethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1-Dichloroethene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,3-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
2,2-Dichloropropane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567

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

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Hexachlorobutadiene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
2-Hexanone	ND	1.0		µg/L	1	8/12/2013 11:35:26 AM	R12567
Isopropylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
4-Isopropyltoluene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
4-Methyl-2-pentanone	ND	1.0		µg/L	1	8/12/2013 11:35:26 AM	R12567
Methylene chloride	ND	0.30		µg/L	1	8/12/2013 11:35:26 AM	R12567
n-Butylbenzene	ND	0.30		µg/L	1	8/12/2013 11:35:26 AM	R12567
n-Propylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
sec-Butylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Styrene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
tert-Butylbenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
trans-1,2-DCE	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1,1-Trichloroethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,1,2-Trichloroethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Trichloroethene (TCE)	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Trichlorofluoromethane	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
1,2,3-Trichloropropane	ND	0.20		µg/L	1	8/12/2013 11:35:26 AM	R12567
Vinyl chloride	ND	0.10		µg/L	1	8/12/2013 11:35:26 AM	R12567
Xylenes, Total	ND	0.15		µg/L	1	8/12/2013 11:35:26 AM	R12567
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%REC	1	8/12/2013 11:35:26 AM	R12567
Surr: 4-Bromofluorobenzene	98.8	70-130		%REC	1	8/12/2013 11:35:26 AM	R12567
Surr: Dibromofluoromethane	96.5	70-130		%REC	1	8/12/2013 11:35:26 AM	R12567
Surr: Toluene-d8	98.9	70-130		%REC	1	8/12/2013 11:35:26 AM	R12567

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

Qualifiers:

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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1308400 RcptNo: 1

Received by/date: LM 08/09/13

Logged By: Michelle Garcia 8/9/2013 8:40:00 AM Michelle Garcia

Completed By: Michelle Garcia 8/9/2013 11:29:23 AM Michelle Garcia

Reviewed By: IO 08/09/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes	No	NA ✔
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 ✔	NA
10. VOA vials have zero headspace?	Yes	No	No VOA Vials ✔
11. Were any sample containers received broken?	Yes	No ✔	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	
13. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	Adjusted?
14. Is it clear what analyses were requested?	Yes ✔	No	
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:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain of Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND PROCESS CTR.

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: N/A

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308400
8/8/13	1021	AIR	AS2 - 130808	1 Liter Tedlar bag	NONE	-001
8/8/13	1025	AIR	AS1 - 130808	11	NONE	-002

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					
									X						
									X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/8	1530	Laura Montoya		08/09/13	0840
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email Reports to Luis Guerra @ lguerra@las-cruces.org
Send invoice to CLC % Luis Guerra

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

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

August 15, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1308415

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/9/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:40:00 AM
Lab ID: 1308415-001 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 12:04:00 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Bromoform	4.6	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 12:04:00 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 12:04:00 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Dibromochloromethane	2.0	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:40:00 AM
Lab ID: 1308415-001
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 12:04:00 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 12:04:00 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 12:04:00 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 12:04:00 PM	R12567
Surr: 1,2-Dichloroethane-d4	90.8	70-130		%REC	1	8/12/2013 12:04:00 PM	R12567
Surr: 4-Bromofluorobenzene	99.7	70-130		%REC	1	8/12/2013 12:04:00 PM	R12567
Surr: Dibromofluoromethane	94.7	70-130		%REC	1	8/12/2013 12:04:00 PM	R12567
Surr: Toluene-d8	98.2	70-130		%REC	1	8/12/2013 12:04:00 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130808-DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:41:00 AM
Lab ID: 1308415-002 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 1:29:17 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Bromoform	5.5	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 1:29:17 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 1:29:17 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Dibromochloromethane	2.5	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130808-DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:41:00 AM
Lab ID: 1308415-002 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 1:29:17 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 1:29:17 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 1:29:17 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 1:29:17 PM	R12567
Surr: 1,2-Dichloroethane-d4	86.0	70-130		%REC	1	8/12/2013 1:29:17 PM	R12567
Surr: 4-Bromofluorobenzene	97.9	70-130		%REC	1	8/12/2013 1:29:17 PM	R12567
Surr: Dibromofluoromethane	88.8	70-130		%REC	1	8/12/2013 1:29:17 PM	R12567
Surr: Toluene-d8	98.3	70-130		%REC	1	8/12/2013 1:29:17 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:52:00 AM
Lab ID: 1308415-003
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 1:57:45 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Bromoform	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 1:57:45 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 1:57:45 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Dibromochloromethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 9:52:00 AM
Lab ID: 1308415-003
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 1:57:45 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 1:57:45 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 1:57:45 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 1:57:45 PM	R12567
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	8/12/2013 1:57:45 PM	R12567
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/12/2013 1:57:45 PM	R12567
Surr: Dibromofluoromethane	93.6	70-130		%REC	1	8/12/2013 1:57:45 PM	R12567
Surr: Toluene-d8	98.5	70-130		%REC	1	8/12/2013 1:57:45 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:02:00 AM
Lab ID: 1308415-004
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 2:25:55 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Bromoform	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 2:25:55 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 2:25:55 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Dibromochloromethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:02:00 AM
Lab ID: 1308415-004
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 2:25:55 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 2:25:55 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 2:25:55 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 2:25:55 PM	R12567
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%REC	1	8/12/2013 2:25:55 PM	R12567
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	1	8/12/2013 2:25:55 PM	R12567
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	8/12/2013 2:25:55 PM	R12567
Surr: Toluene-d8	98.2	70-130		%REC	1	8/12/2013 2:25:55 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ISI_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:06:00 AM
Lab ID: 1308415-005 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 2:54:03 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Bromoform	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 2:54:03 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 2:54:03 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Dibromochloromethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ISI_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:06:00 AM
Lab ID: 1308415-005 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 2:54:03 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 2:54:03 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Tetrachloroethene (PCE)	6.0	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 2:54:03 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 2:54:03 PM	R12567
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	8/12/2013 2:54:03 PM	R12567
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	8/12/2013 2:54:03 PM	R12567
Surr: Dibromofluoromethane	90.4	70-130		%REC	1	8/12/2013 2:54:03 PM	R12567
Surr: Toluene-d8	96.9	70-130		%REC	1	8/12/2013 2:54:03 PM	R12567

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Qualifiers:

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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:17:00 AM
Lab ID: 1308415-006
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 3:22:04 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Bromoform	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 3:22:04 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 3:22:04 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Dibromochloromethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:17:00 AM
Lab ID: 1308415-006 **Matrix:** AQUEOUS **Received Date:** 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 3:22:04 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 3:22:04 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Tetrachloroethene (PCE)	2.4	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 3:22:04 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 3:22:04 PM	R12567
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%REC	1	8/12/2013 3:22:04 PM	R12567
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	8/12/2013 3:22:04 PM	R12567
Surr: Dibromofluoromethane	97.2	70-130		%REC	1	8/12/2013 3:22:04 PM	R12567
Surr: Toluene-d8	94.8	70-130		%REC	1	8/12/2013 3:22:04 PM	R12567

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_130808
Project: CLC Joint Superfund Process Center
Collection Date: 8/8/2013 10:41:00 AM
Lab ID: 1308415-007
Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Toluene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Ethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Naphthalene	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
2-Methylnaphthalene	ND	4.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Acetone	ND	10		µg/L	1	8/12/2013 3:50:11 PM	R12567
Bromobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Bromodichloromethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Bromoform	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Bromomethane	ND	3.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
2-Butanone	ND	10		µg/L	1	8/12/2013 3:50:11 PM	R12567
Carbon disulfide	ND	10		µg/L	1	8/12/2013 3:50:11 PM	R12567
Carbon Tetrachloride	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Chlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Chloroethane	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Chloroform	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Chloromethane	ND	3.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
2-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
4-Chlorotoluene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
cis-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Dibromochloromethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Dibromomethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,3-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,4-Dichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Dichlorodifluoromethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1-Dichloroethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1-Dichloroethene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,3-Dichloropropane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
2,2-Dichloropropane	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567

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Matrix: AQUEOUS
Received Date: 8/9/2013 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Hexachlorobutadiene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
2-Hexanone	ND	10		µg/L	1	8/12/2013 3:50:11 PM	R12567
Isopropylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
4-Isopropyltoluene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2013 3:50:11 PM	R12567
Methylene Chloride	ND	3.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
n-Butylbenzene	ND	3.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
n-Propylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
sec-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Styrene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
tert-Butylbenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Tetrachloroethene (PCE)	14	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
trans-1,2-DCE	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1,1-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,1,2-Trichloroethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Trichloroethene (TCE)	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Trichlorofluoromethane	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
1,2,3-Trichloropropane	ND	2.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Vinyl chloride	ND	1.0		µg/L	1	8/12/2013 3:50:11 PM	R12567
Xylenes, Total	ND	1.5		µg/L	1	8/12/2013 3:50:11 PM	R12567
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	8/12/2013 3:50:11 PM	R12567
Surr: 4-Bromofluorobenzene	99.9	70-130		%REC	1	8/12/2013 3:50:11 PM	R12567
Surr: Dibromofluoromethane	91.4	70-130		%REC	1	8/12/2013 3:50:11 PM	R12567
Surr: Toluene-d8	94.2	70-130		%REC	1	8/12/2013 3:50:11 PM	R12567

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Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308415**

15-Aug-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357898** 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								
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								

Qualifiers:

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O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308415**

15-Aug-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357898** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.9	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.7	70	130			
Surr: Toluene-d8	9.7		10.00		96.6	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357900** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.9	70	130			
Toluene	19	1.0	20.00	0	96.7	80	120			
Chlorobenzene	18	1.0	20.00	0	89.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308415**

15-Aug-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357900** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	102	85.8	133			
Trichloroethene (TCE)	16	1.0	20.00	0	81.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	9.3		10.00		92.8	70	130			
Surr: Toluene-d8	9.7		10.00		96.7	70	130			

Sample ID **1308415-001ams**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **ES1_130808**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357907** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.1	67.9	137			
Toluene	19	1.0	20.00	0	92.8	77	127			
Chlorobenzene	18	1.0	20.00	0	88.3	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.5	66.5	131			
Trichloroethene (TCE)	16	1.0	20.00	0	78.8	66.3	134			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.7	70	130			
Surr: Toluene-d8	9.7		10.00		96.8	70	130			

Sample ID **1308415-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **ES1_130808**	Batch ID: **R12567**	RunNo: **12567**
Prep Date:	Analysis Date: **8/12/2013**	SeqNo: **357908** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	84.9	67.9	137	3.67	20	
Toluene	18	1.0	20.00	0	88.9	77	127	4.27	20	
Chlorobenzene	17	1.0	20.00	0	83.5	70	130	5.58	20	
1,1-Dichloroethene	18	1.0	20.00	0	92.2	66.5	131	5.57	20	
Trichloroethene (TCE)	15	1.0	20.00	0	73.6	66.3	134	6.76	20	
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130	0	0	
Surr: Dibromofluoromethane	9.0		10.00		90.3	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		96.7	70	130	0	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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1308415** RcptNo: **1**

Received by/date: KM 08/09/13

Logged By: **Ashley Gallegos** 8/9/2013 8:40:00 AM

Completed By: **Ashley Gallegos** 8/9/2013 3:18:22 PM

Reviewed By: 08/12/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No	NA
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 ✔	NA
10. VOA vials have zero headspace?	Yes ✔	No	No VOA Vials
11. Were any sample containers received broken?	Yes	No ✔	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	Adjusted?
14. Is it clear what analyses were requested?	Yes ✔	No	
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:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308415	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
8/13	9:40	Drink H2O	ESI_130808	3-40 ml Vial	HgCl2	-001										X						
8/13	9:41		ESI-130808-Dupe	"	"	-002										X						
8/13	9:52		C2_130808	"	"	-003										X						
8/13	10:02		C1-130808	"	"	-004										X						
8/13	10:06		ISI_130808	"	"	-005										X						
8/13	10:17		CLC18_130808	"	"	-006										X						
8/13	10:41	Drink H2O	CLC27_130808	3-40ml Vial	HgCl2	-007										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/13	1530	Laura Montoya		08/09/13	08:40
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email Reports to Luis Guerra @ lguerra@las-cruces.org
Send Invoice to CLC c/o Luis Guerra

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 12, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1309236

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/6/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:18:00 AM
Lab ID: 1309236-001 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 12:11:17 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Bromoform	4.9	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 12:11:17 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 12:11:17 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Dibromochloromethane	1.8	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:18:00 AM
Lab ID: 1309236-001
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 12:11:17 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 12:11:17 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 12:11:17 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 12:11:17 PM	R13242
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%REC	1	9/9/2013 12:11:17 PM	R13242
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	1	9/9/2013 12:11:17 PM	R13242
Surr: Dibromofluoromethane	113	70-130		%REC	1	9/9/2013 12:11:17 PM	R13242
Surr: Toluene-d8	105	70-130		%REC	1	9/9/2013 12:11:17 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:26:00 AM
Lab ID: 1309236-002
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 1:37:45 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 1:37:45 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 1:37:45 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:26:00 AM
Lab ID: 1309236-002
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 1:37:45 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 1:37:45 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 1:37:45 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 1:37:45 PM	R13242
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%REC	1	9/9/2013 1:37:45 PM	R13242
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/9/2013 1:37:45 PM	R13242
Surr: Dibromofluoromethane	109	70-130		%REC	1	9/9/2013 1:37:45 PM	R13242
Surr: Toluene-d8	97.1	70-130		%REC	1	9/9/2013 1:37:45 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:29:00 AM
Lab ID: 1309236-003
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 2:06:40 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 2:06:40 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 2:06:40 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:29:00 AM
Lab ID: 1309236-003
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 2:06:40 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 2:06:40 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 2:06:40 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 2:06:40 PM	R13242
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%REC	1	9/9/2013 2:06:40 PM	R13242
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	9/9/2013 2:06:40 PM	R13242
Surr: Dibromofluoromethane	111	70-130		%REC	1	9/9/2013 2:06:40 PM	R13242
Surr: Toluene-d8	98.8	70-130		%REC	1	9/9/2013 2:06:40 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:34:00 AM
Lab ID: 1309236-004 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 2:35:33 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 2:35:33 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 2:35:33 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:34:00 AM
Lab ID: 1309236-004 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 2:35:33 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 2:35:33 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Tetrachloroethene (PCE)	8.5	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 2:35:33 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 2:35:33 PM	R13242
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	1	9/9/2013 2:35:33 PM	R13242
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	9/9/2013 2:35:33 PM	R13242
Surr: Dibromofluoromethane	115	70-130		%REC	1	9/9/2013 2:35:33 PM	R13242
Surr: Toluene-d8	97.0	70-130		%REC	1	9/9/2013 2:35:33 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130905 DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:35:00 AM
Lab ID: 1309236-005 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 3:04:27 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 3:04:27 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 3:04:27 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_130905 DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:35:00 AM
Lab ID: 1309236-005 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 3:04:27 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 3:04:27 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Tetrachloroethene (PCE)	8.8	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 3:04:27 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 3:04:27 PM	R13242
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	9/9/2013 3:04:27 PM	R13242
Surr: 4-Bromofluorobenzene	99.6	70-130		%REC	1	9/9/2013 3:04:27 PM	R13242
Surr: Dibromofluoromethane	112	70-130		%REC	1	9/9/2013 3:04:27 PM	R13242
Surr: Toluene-d8	92.6	70-130		%REC	1	9/9/2013 3:04:27 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:41:00 AM
Lab ID: 1309236-006 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 3:33:20 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 3:33:20 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 3:33:20 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:41:00 AM
Lab ID: 1309236-006 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 3:33:20 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 3:33:20 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Tetrachloroethene (PCE)	4.1	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 3:33:20 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 3:33:20 PM	R13242
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	9/9/2013 3:33:20 PM	R13242
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	9/9/2013 3:33:20 PM	R13242
Surr: Dibromofluoromethane	120	70-130		%REC	1	9/9/2013 3:33:20 PM	R13242
Surr: Toluene-d8	95.7	70-130		%REC	1	9/9/2013 3:33:20 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 11:06:00 AM
Lab ID: 1309236-007 **Matrix:** AQUEOUS **Received Date:** 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Toluene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Ethylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Naphthalene	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
2-Methylnaphthalene	ND	4.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Acetone	ND	10		µg/L	1	9/9/2013 4:02:13 PM	R13242
Bromobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Bromodichloromethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Bromoform	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Bromomethane	ND	3.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
2-Butanone	ND	10		µg/L	1	9/9/2013 4:02:13 PM	R13242
Carbon disulfide	ND	10		µg/L	1	9/9/2013 4:02:13 PM	R13242
Carbon Tetrachloride	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Chlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Chloroethane	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Chloroform	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Chloromethane	ND	3.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
2-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
4-Chlorotoluene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
cis-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Dibromochloromethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Dibromomethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,3-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,4-Dichlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Dichlorodifluoromethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1-Dichloroethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1-Dichloroethene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,3-Dichloropropane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
2,2-Dichloropropane	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 11:06:00 AM
Lab ID: 1309236-007
Matrix: AQUEOUS
Received Date: 9/6/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Hexachlorobutadiene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
2-Hexanone	ND	10		µg/L	1	9/9/2013 4:02:13 PM	R13242
Isopropylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
4-Isopropyltoluene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
4-Methyl-2-pentanone	ND	10		µg/L	1	9/9/2013 4:02:13 PM	R13242
Methylene Chloride	ND	3.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
n-Butylbenzene	ND	3.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
n-Propylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
sec-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Styrene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
tert-Butylbenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Tetrachloroethene (PCE)	13	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
trans-1,2-DCE	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1,1-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,1,2-Trichloroethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Trichloroethene (TCE)	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Trichlorofluoromethane	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
1,2,3-Trichloropropane	ND	2.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Vinyl chloride	ND	1.0		µg/L	1	9/9/2013 4:02:13 PM	R13242
Xylenes, Total	ND	1.5		µg/L	1	9/9/2013 4:02:13 PM	R13242
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%REC	1	9/9/2013 4:02:13 PM	R13242
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/9/2013 4:02:13 PM	R13242
Surr: Dibromofluoromethane	113	70-130		%REC	1	9/9/2013 4:02:13 PM	R13242
Surr: Toluene-d8	98.4	70-130		%REC	1	9/9/2013 4:02:13 PM	R13242

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1309236**

12-Sep-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R13242**	RunNo: **13242**
Prep Date:	Analysis Date: **9/9/2013**	SeqNo: **376628** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1309236**

12-Sep-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R13242**	RunNo: **13242**
Prep Date:	Analysis Date: **9/9/2013**	SeqNo: **376628** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	12		10.00		115	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R13242**	RunNo: **13242**
Prep Date:	Analysis Date: **9/9/2013**	SeqNo: **376631** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.9	70	130			
Toluene	20	1.0	20.00	0	100	82.2	124			
Chlorobenzene	18	1.0	20.00	0	92.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1309236**

12-Sep-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R13242**	RunNo: **13242**
Prep Date:	Analysis Date: **9/9/2013**	SeqNo: **376631** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	117	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	95.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.6	70	130			
Surr: Dibromofluoromethane	11		10.00		112	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1309236 RcptNo: 1

Received by/date: 09/06/13

Logged By: Lindsay Mangin 9/6/2013 9:30:00 AM

Completed By: Lindsay Mangin 9/6/2013 5:02:11 PM

Reviewed By: 09/09/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC JOINT Superfund process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.4

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1309236	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
9/5/13	1018	Drink H2O	ES1-130905	3-40ml vial	HgCl2	-001										X		
	1026	"	C2-130905	3-40ml	HgCl2	-002										X		
	1029	"	C1-130905	3-40ml	HgCl2	-003										X		
	1034	"	IS1-130905	3-40ml	HgCl2	-004										X		
9/5/13	1035	"	IS1-130905 DUPE	3-40ml	HgCl2	-005										X		
			~~CLC-18-8m~~															
9/5/13	1041	Drink H2O	CLC18-130905	3-40ml	HgCl2	-006										X		
9/5/13	1106	"	CLC27-130905	3-40ml	HgCl2	-007										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
9-5-13	1530	Laura Montoya		09/06/13	0930
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email Reports to Luis Gue @ lguerra@las-cruces.org
Send INVOICE to CLC c/o Luis Gu

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 13, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1309260

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/6/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:49:00 AM
Lab ID: 1309260-001 **Matrix:** AIR
Received Date: 9/6/2013 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Toluene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Ethylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Naphthalene	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
1-Methylnaphthalene	ND	0.40		µg/L	1	9/11/2013 11:35:34 AM	R13299
2-Methylnaphthalene	ND	0.40		µg/L	1	9/11/2013 11:35:34 AM	R13299
Acetone	ND	1.0		µg/L	1	9/11/2013 11:35:34 AM	R13299
Bromobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Bromodichloromethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Bromoform	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Bromomethane	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
2-Butanone	ND	1.0		µg/L	1	9/11/2013 11:35:34 AM	R13299
Carbon disulfide	ND	1.0		µg/L	1	9/11/2013 11:35:34 AM	R13299
Carbon tetrachloride	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Chlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Chloroethane	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
Chloroform	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Chloromethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
2-Chlorotoluene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
4-Chlorotoluene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
cis-1,2-DCE	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
Dibromochloromethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Dibromomethane	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,3-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,4-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Dichlorodifluoromethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1-Dichloroethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1-Dichloroethene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,3-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
2,2-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:49:00 AM
Lab ID: 1309260-001 **Matrix:** AIR
Received Date: 9/6/2013 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Hexachlorobutadiene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
2-Hexanone	ND	1.0		µg/L	1	9/11/2013 11:35:34 AM	R13299
Isopropylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
4-Isopropyltoluene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
4-Methyl-2-pentanone	ND	1.0		µg/L	1	9/11/2013 11:35:34 AM	R13299
Methylene chloride	ND	0.30		µg/L	1	9/11/2013 11:35:34 AM	R13299
n-Butylbenzene	ND	0.30		µg/L	1	9/11/2013 11:35:34 AM	R13299
n-Propylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
sec-Butylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Styrene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
tert-Butylbenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Tetrachloroethene (PCE)	0.23	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
trans-1,2-DCE	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1,1-Trichloroethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,1,2-Trichloroethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Trichloroethene (TCE)	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Trichlorofluoromethane	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
1,2,3-Trichloropropane	ND	0.20		µg/L	1	9/11/2013 11:35:34 AM	R13299
Vinyl chloride	ND	0.10		µg/L	1	9/11/2013 11:35:34 AM	R13299
Xylenes, Total	ND	0.15		µg/L	1	9/11/2013 11:35:34 AM	R13299
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	9/11/2013 11:35:34 AM	R13299
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	9/11/2013 11:35:34 AM	R13299
Surr: Dibromofluoromethane	94.8	70-130		%REC	1	9/11/2013 11:35:34 AM	R13299
Surr: Toluene-d8	102	70-130		%REC	1	9/11/2013 11:35:34 AM	R13299

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:53:00 AM
Lab ID: 1309260-002 **Matrix:** AIR
Received Date: 9/6/2013 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Toluene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Ethylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Naphthalene	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
1-Methylnaphthalene	ND	0.40		µg/L	1	9/11/2013 12:04:04 PM	R13299
2-Methylnaphthalene	ND	0.40		µg/L	1	9/11/2013 12:04:04 PM	R13299
Acetone	ND	1.0		µg/L	1	9/11/2013 12:04:04 PM	R13299
Bromobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Bromodichloromethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Bromoform	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Bromomethane	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
2-Butanone	ND	1.0		µg/L	1	9/11/2013 12:04:04 PM	R13299
Carbon disulfide	ND	1.0		µg/L	1	9/11/2013 12:04:04 PM	R13299
Carbon tetrachloride	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Chlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Chloroethane	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
Chloroform	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Chloromethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
2-Chlorotoluene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
4-Chlorotoluene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
cis-1,2-DCE	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
Dibromochloromethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Dibromomethane	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,3-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,4-Dichlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Dichlorodifluoromethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1-Dichloroethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1-Dichloroethene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,3-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
2,2-Dichloropropane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-130905
Project: CLC Joint Superfund Process Center
Collection Date: 9/5/2013 10:53:00 AM
Lab ID: 1309260-002 **Matrix:** AIR
Received Date: 9/6/2013 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Hexachlorobutadiene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
2-Hexanone	ND	1.0		µg/L	1	9/11/2013 12:04:04 PM	R13299
Isopropylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
4-Isopropyltoluene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
4-Methyl-2-pentanone	ND	1.0		µg/L	1	9/11/2013 12:04:04 PM	R13299
Methylene chloride	ND	0.30		µg/L	1	9/11/2013 12:04:04 PM	R13299
n-Butylbenzene	ND	0.30		µg/L	1	9/11/2013 12:04:04 PM	R13299
n-Propylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
sec-Butylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Styrene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
tert-Butylbenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Tetrachloroethene (PCE)	0.18	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
trans-1,2-DCE	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1,1-Trichloroethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,1,2-Trichloroethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Trichloroethene (TCE)	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Trichlorofluoromethane	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
1,2,3-Trichloropropane	ND	0.20		µg/L	1	9/11/2013 12:04:04 PM	R13299
Vinyl chloride	ND	0.10		µg/L	1	9/11/2013 12:04:04 PM	R13299
Xylenes, Total	ND	0.15		µg/L	1	9/11/2013 12:04:04 PM	R13299
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%REC	1	9/11/2013 12:04:04 PM	R13299
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	9/11/2013 12:04:04 PM	R13299
Surr: Dibromofluoromethane	90.1	70-130		%REC	1	9/11/2013 12:04:04 PM	R13299
Surr: Toluene-d8	96.8	70-130		%REC	1	9/11/2013 12:04:04 PM	R13299

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1309260 RcptNo: 1

Received by/date: AT 09/6/13

Logged By: Anne Thorne 9/6/2013 10:30:00 AM Anne Thorne

Completed By: Anne Thorne 9/9/2013 Anne Thorne

Reviewed By: 09/09/13

Chain of Custody

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?	UPS		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC Joint Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature:

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1309260	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					
7/5/13	1049	AIR	AS1-130905	1 Liter (1) Tedlar Bag	NONE	-001										X						
7/5/13	1053	AIR	AS2-130905	1 Liter Tedlar Bag	NONE	002										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-5-13	1530	Laura Montoya		7/6/13	10:30
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email Reports to Luis Gue
Send invoice to CLC % Luis Gue

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.

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

October 17, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1310521

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/9/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1310521**
Date Reported: **10/17/2013**

CLIENT: City of Las Cruces
Client Sample ID: AS1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:30:00 PM
Lab ID: 1310521-001 **Matrix:** AIR
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Toluene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Ethylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Naphthalene	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
1-Methylnaphthalene	ND	0.40		µg/L	1	10/14/2013 12:35:59 PM	R14062
2-Methylnaphthalene	ND	0.40		µg/L	1	10/14/2013 12:35:59 PM	R14062
Acetone	ND	1.0		µg/L	1	10/14/2013 12:35:59 PM	R14062
Bromobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Bromodichloromethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Bromoform	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Bromomethane	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
2-Butanone	ND	1.0		µg/L	1	10/14/2013 12:35:59 PM	R14062
Carbon disulfide	ND	1.0		µg/L	1	10/14/2013 12:35:59 PM	R14062
Carbon tetrachloride	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Chlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Chloroethane	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
Chloroform	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Chloromethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
2-Chlorotoluene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
4-Chlorotoluene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
cis-1,2-DCE	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
Dibromochloromethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Dibromomethane	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,3-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,4-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Dichlorodifluoromethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1-Dichloroethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1-Dichloroethene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,3-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
2,2-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:30:00 PM
Lab ID: 1310521-001 **Matrix:** AIR
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Hexachlorobutadiene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
2-Hexanone	ND	1.0		µg/L	1	10/14/2013 12:35:59 PM	R14062
Isopropylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
4-Isopropyltoluene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
4-Methyl-2-pentanone	ND	1.0		µg/L	1	10/14/2013 12:35:59 PM	R14062
Methylene chloride	ND	0.30		µg/L	1	10/14/2013 12:35:59 PM	R14062
n-Butylbenzene	ND	0.30		µg/L	1	10/14/2013 12:35:59 PM	R14062
n-Propylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
sec-Butylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Styrene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
tert-Butylbenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Tetrachloroethene (PCE)	0.10	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
trans-1,2-DCE	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1,1-Trichloroethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,1,2-Trichloroethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Trichloroethene (TCE)	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Trichlorofluoromethane	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
1,2,3-Trichloropropane	ND	0.20		µg/L	1	10/14/2013 12:35:59 PM	R14062
Vinyl chloride	ND	0.10		µg/L	1	10/14/2013 12:35:59 PM	R14062
Xylenes, Total	ND	0.15		µg/L	1	10/14/2013 12:35:59 PM	R14062
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%REC	1	10/14/2013 12:35:59 PM	R14062
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/14/2013 12:35:59 PM	R14062
Surr: Dibromofluoromethane	92.9	70-130		%REC	1	10/14/2013 12:35:59 PM	R14062
Surr: Toluene-d8	97.1	70-130		%REC	1	10/14/2013 12:35:59 PM	R14062

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:34:00 PM
Lab ID: 1310521-002 **Matrix:** AIR
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Toluene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Ethylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Naphthalene	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
1-Methylnaphthalene	ND	0.40		µg/L	1	10/14/2013 1:04:27 PM	R14062
2-Methylnaphthalene	ND	0.40		µg/L	1	10/14/2013 1:04:27 PM	R14062
Acetone	ND	1.0		µg/L	1	10/14/2013 1:04:27 PM	R14062
Bromobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Bromodichloromethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Bromoform	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Bromomethane	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
2-Butanone	ND	1.0		µg/L	1	10/14/2013 1:04:27 PM	R14062
Carbon disulfide	ND	1.0		µg/L	1	10/14/2013 1:04:27 PM	R14062
Carbon tetrachloride	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Chlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Chloroethane	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
Chloroform	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Chloromethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
2-Chlorotoluene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
4-Chlorotoluene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
cis-1,2-DCE	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
Dibromochloromethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Dibromomethane	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,3-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,4-Dichlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Dichlorodifluoromethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1-Dichloroethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1-Dichloroethene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,3-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
2,2-Dichloropropane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:34:00 PM
Lab ID: 1310521-002 **Matrix:** AIR
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Hexachlorobutadiene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
2-Hexanone	ND	1.0		µg/L	1	10/14/2013 1:04:27 PM	R14062
Isopropylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
4-Isopropyltoluene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
4-Methyl-2-pentanone	ND	1.0		µg/L	1	10/14/2013 1:04:27 PM	R14062
Methylene chloride	ND	0.30		µg/L	1	10/14/2013 1:04:27 PM	R14062
n-Butylbenzene	ND	0.30		µg/L	1	10/14/2013 1:04:27 PM	R14062
n-Propylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
sec-Butylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Styrene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
tert-Butylbenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Tetrachloroethene (PCE)	0.10	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
trans-1,2-DCE	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1,1-Trichloroethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,1,2-Trichloroethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Trichloroethene (TCE)	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Trichlorofluoromethane	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
1,2,3-Trichloropropane	ND	0.20		µg/L	1	10/14/2013 1:04:27 PM	R14062
Vinyl chloride	ND	0.10		µg/L	1	10/14/2013 1:04:27 PM	R14062
Xylenes, Total	ND	0.15		µg/L	1	10/14/2013 1:04:27 PM	R14062
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	10/14/2013 1:04:27 PM	R14062
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/14/2013 1:04:27 PM	R14062
Surr: Dibromofluoromethane	91.6	70-130		%REC	1	10/14/2013 1:04:27 PM	R14062
Surr: Toluene-d8	93.9	70-130		%REC	1	10/14/2013 1:04:27 PM	R14062

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1310521 RcptNo: 1

Received by/date: MG 10/09/13

Logged By: **Lindsay Mangin** 10/9/2013 8:45:00 AM

Completed By: **Lindsay Mangin** 10/10/2013 9:30:59 AM

Reviewed By: TO 10/10/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: CLC Joint Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9 HP

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1310521	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
10-8-13	1230	AIR	AS1_131008	1 liter Tedlar	NONE	-001										X		
10-8-13	1234	AIR	AS2_131008	1 liter Tedlar	NONE	-002										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
10-8-13	1500	Laura Montoya		10/9/13	0845
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Email reports to Luis Guerra
Send invoice to CLC % Luis Guerra @ address above.

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.

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

October 17, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1310524

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/9/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 11:56:00 AM
Lab ID: 1310524-001
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 8:00:26 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Bromoform	5.1	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 8:00:26 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 8:00:26 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Dibromochloromethane	2.8	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 11:56:00 AM
Lab ID: 1310524-001 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 8:00:26 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 8:00:26 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 8:00:26 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 8:00:26 PM	R13992
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	10/10/2013 8:00:26 PM	R13992
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	10/10/2013 8:00:26 PM	R13992
Surr: Dibromofluoromethane	107	70-130		%REC	1	10/10/2013 8:00:26 PM	R13992
Surr: Toluene-d8	103	70-130		%REC	1	10/10/2013 8:00:26 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:04:00 PM
Lab ID: 1310524-002
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 8:29:12 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Bromoform	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 8:29:12 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 8:29:12 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:04:00 PM
Lab ID: 1310524-002
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 8:29:12 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 8:29:12 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 8:29:12 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 8:29:12 PM	R13992
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	10/10/2013 8:29:12 PM	R13992
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	10/10/2013 8:29:12 PM	R13992
Surr: Dibromofluoromethane	108	70-130		%REC	1	10/10/2013 8:29:12 PM	R13992
Surr: Toluene-d8	103	70-130		%REC	1	10/10/2013 8:29:12 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:08:00 PM
Lab ID: 1310524-003
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 8:57:58 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Bromoform	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 8:57:58 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 8:57:58 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:08:00 PM
Lab ID: 1310524-003
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 8:57:58 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 8:57:58 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 8:57:58 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 8:57:58 PM	R13992
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	10/10/2013 8:57:58 PM	R13992
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	10/10/2013 8:57:58 PM	R13992
Surr: Dibromofluoromethane	106	70-130		%REC	1	10/10/2013 8:57:58 PM	R13992
Surr: Toluene-d8	96.9	70-130		%REC	1	10/10/2013 8:57:58 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_131008 Dupe
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:09:00 PM
Lab ID: 1310524-004 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 10:52:47 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Bromoform	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 10:52:47 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 10:52:47 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_131008 Dupe
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:09:00 PM
Lab ID: 1310524-004
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 10:52:47 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 10:52:47 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 10:52:47 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 10:52:47 PM	R13992
Surr: 1,2-Dichloroethane-d4	94.5	70-130		%REC	1	10/10/2013 10:52:47 PM	R13992
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/10/2013 10:52:47 PM	R13992
Surr: Dibromofluoromethane	101	70-130		%REC	1	10/10/2013 10:52:47 PM	R13992
Surr: Toluene-d8	101	70-130		%REC	1	10/10/2013 10:52:47 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:14:00 PM
Lab ID: 1310524-005 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 11:21:27 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Bromoform	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 11:21:27 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 11:21:27 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:14:00 PM
Lab ID: 1310524-005 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 11:21:27 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 11:21:27 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Tetrachloroethene (PCE)	8.2	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 11:21:27 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 11:21:27 PM	R13992
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	10/10/2013 11:21:27 PM	R13992
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	1	10/10/2013 11:21:27 PM	R13992
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/10/2013 11:21:27 PM	R13992
Surr: Toluene-d8	98.7	70-130		%REC	1	10/10/2013 11:21:27 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:21:00 PM
Lab ID: 1310524-006 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Toluene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Naphthalene	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Acetone	ND	10		µg/L	1	10/10/2013 11:50:14 PM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Bromoform	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Bromomethane	ND	3.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
2-Butanone	ND	10		µg/L	1	10/10/2013 11:50:14 PM	R13992
Carbon disulfide	ND	10		µg/L	1	10/10/2013 11:50:14 PM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Chloroethane	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Chloroform	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Chloromethane	ND	3.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:21:00 PM
Lab ID: 1310524-006
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
2-Hexanone	ND	10		µg/L	1	10/10/2013 11:50:14 PM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2013 11:50:14 PM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Styrene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Tetrachloroethene (PCE)	3.9	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/10/2013 11:50:14 PM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/10/2013 11:50:14 PM	R13992
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	10/10/2013 11:50:14 PM	R13992
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/10/2013 11:50:14 PM	R13992
Surr: Dibromofluoromethane	98.0	70-130		%REC	1	10/10/2013 11:50:14 PM	R13992
Surr: Toluene-d8	104	70-130		%REC	1	10/10/2013 11:50:14 PM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:52:00 PM
Lab ID: 1310524-007
Matrix: AQUEOUS
Received Date: 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Toluene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Ethylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Naphthalene	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
2-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Acetone	ND	10		µg/L	1	10/11/2013 12:18:57 AM	R13992
Bromobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Bromodichloromethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Bromoform	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Bromomethane	ND	3.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
2-Butanone	ND	10		µg/L	1	10/11/2013 12:18:57 AM	R13992
Carbon disulfide	ND	10		µg/L	1	10/11/2013 12:18:57 AM	R13992
Carbon Tetrachloride	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Chlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Chloroethane	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Chloroform	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Chloromethane	ND	3.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
2-Chlorotoluene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
4-Chlorotoluene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
cis-1,2-DCE	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Dibromochloromethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Dibromomethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1-Dichloroethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1-Dichloroethene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2-Dichloropropane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,3-Dichloropropane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
2,2-Dichloropropane	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_131008
Project: CLC Joint Superfund Process Center
Collection Date: 10/8/2013 12:52:00 PM
Lab ID: 1310524-007 **Matrix:** AQUEOUS **Received Date:** 10/9/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Hexachlorobutadiene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
2-Hexanone	ND	10		µg/L	1	10/11/2013 12:18:57 AM	R13992
Isopropylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
4-Isopropyltoluene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2013 12:18:57 AM	R13992
Methylene Chloride	ND	3.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
n-Butylbenzene	ND	3.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
n-Propylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
sec-Butylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Styrene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
tert-Butylbenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Tetrachloroethene (PCE)	13	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
trans-1,2-DCE	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Trichlorofluoromethane	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Vinyl chloride	ND	1.0		µg/L	1	10/11/2013 12:18:57 AM	R13992
Xylenes, Total	ND	1.5		µg/L	1	10/11/2013 12:18:57 AM	R13992
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	10/11/2013 12:18:57 AM	R13992
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	10/11/2013 12:18:57 AM	R13992
Surr: Dibromofluoromethane	105	70-130		%REC	1	10/11/2013 12:18:57 AM	R13992
Surr: Toluene-d8	99.7	70-130		%REC	1	10/11/2013 12:18:57 AM	R13992

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310524**

17-Oct-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R13992**	RunNo: **13992**
Prep Date:	Analysis Date: **10/10/2013**	SeqNo: **399983** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310524**

17-Oct-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R13992**	RunNo: **13992**
Prep Date:	Analysis Date: **10/10/2013**	SeqNo: **399983** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R13992**	RunNo: **13992**
Prep Date:	Analysis Date: **10/10/2013**	SeqNo: **399985** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.8	70	130			
Toluene	21	1.0	20.00	0	105	82.2	124			
Chlorobenzene	19	1.0	20.00	0	96.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310524**

17-Oct-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R13992**	RunNo: **13992**
Prep Date:	Analysis Date: **10/10/2013**	SeqNo: **399985** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	24	1.0	20.00	0	120	83.5	155			
Trichloroethene (TCE)	18	1.0	20.00	0	90.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.6	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.8	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.9	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1310524 RcptNo: 1

Received by/date: MG 10/09/13

Logged By: **Lindsay Mangin** 10/9/2013 8:45:00 AM

Completed By: **Lindsay Mangin** 10/10/2013 9:41:42 AM

Reviewed By: IO 10/10/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces	Turn-Around Time: ☐ Standard ☐ Rush
Mailing Address: P.O. Box 20000 Las Cruces, NM 88004	Project Name: CLC Joint Superfund Process Center
Phone #: 575-528-3604	Project #:
email or Fax#: 575-528-3630	Project Manager: Luis Guerra lguerra@las-cruces.org
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: Laura Montoya
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☒ EDD (Type) EXCEL	Sample Temperature: 1.9

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1310524
9-8-13	1156	Drink Water	ESI-131008	3-40ml	$HgCl_2$	-001
9-8-13	1204	"	C2-131008	3-40ml	$HgCl_2$	-002
9-8-13	1208	"	C1-131008	3-40ml	$HgCl_2$	-003
9-8-13	1209	"	C1-131008 Dupe	3-40ml	$HgCl_2$	-004
9-8-13	1214	"	151-131008	3-40ml	$HgCl_2$	-005
9-8-13	1221	"	CLC 18-131008	3-40ml	$HgCl_2$	-006
9-8-13	1252	Drink Water	CLC 27-131008	3-40ml	$HgCl_2$	-007

Analysis Request	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~ VOC)	8270 (Semi-VOA)	Air Bubbles (Y or N)
001										X		
002										X		
003										X		
004										X		
005										X		
006										X		
007										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
9-8-13	1500	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	10/09/13 Date	0845 Time

Remarks: Email Reports to Luis Guerra
Send invoice to CLC % Luis Guerra @ address above.

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 14, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1311305

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/8/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1311305**
Date Reported: **11/14/2013**

CLIENT: City of Las Cruces
Client Sample ID: AS1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:04:00 AM
Lab ID: 1311305-001 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Toluene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Ethylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Naphthalene	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
1-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 1:15:16 PM	R14756
2-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 1:15:16 PM	R14756
Acetone	ND	1.0		µg/L	1	11/12/2013 1:15:16 PM	R14756
Bromobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Bromodichloromethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Bromoform	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Bromomethane	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
2-Butanone	ND	1.0		µg/L	1	11/12/2013 1:15:16 PM	R14756
Carbon disulfide	ND	1.0		µg/L	1	11/12/2013 1:15:16 PM	R14756
Carbon tetrachloride	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Chlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Chloroethane	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
Chloroform	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Chloromethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
2-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
4-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
cis-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
Dibromochloromethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Dibromomethane	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,3-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,4-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Dichlorodifluoromethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1-Dichloroethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1-Dichloroethene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,3-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
2,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:04:00 AM
Lab ID: 1311305-001 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Hexachlorobutadiene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
2-Hexanone	ND	1.0		µg/L	1	11/12/2013 1:15:16 PM	R14756
Isopropylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
4-Isopropyltoluene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
4-Methyl-2-pentanone	ND	1.0		µg/L	1	11/12/2013 1:15:16 PM	R14756
Methylene chloride	ND	0.30		µg/L	1	11/12/2013 1:15:16 PM	R14756
n-Butylbenzene	ND	0.30		µg/L	1	11/12/2013 1:15:16 PM	R14756
n-Propylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
sec-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Styrene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
tert-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Tetrachloroethene (PCE)	0.21	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
trans-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1,1-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,1,2-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Trichloroethene (TCE)	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Trichlorofluoromethane	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
1,2,3-Trichloropropane	ND	0.20		µg/L	1	11/12/2013 1:15:16 PM	R14756
Vinyl chloride	ND	0.10		µg/L	1	11/12/2013 1:15:16 PM	R14756
Xylenes, Total	ND	0.15		µg/L	1	11/12/2013 1:15:16 PM	R14756
Surr: Dibromofluoromethane	101	70-130		%REC	1	11/12/2013 1:15:16 PM	R14756
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%REC	1	11/12/2013 1:15:16 PM	R14756
Surr: Toluene-d8	97.4	70-130		%REC	1	11/12/2013 1:15:16 PM	R14756
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	11/12/2013 1:15:16 PM	R14756

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

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-131107-DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:05:00 AM
Lab ID: 1311305-002 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Toluene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Ethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Naphthalene	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
1-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 2:18:56 PM	R14756
2-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 2:18:56 PM	R14756
Acetone	ND	1.0		µg/L	1	11/12/2013 2:18:56 PM	R14756
Bromobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Bromodichloromethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Bromoform	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Bromomethane	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
2-Butanone	ND	1.0		µg/L	1	11/12/2013 2:18:56 PM	R14756
Carbon disulfide	ND	1.0		µg/L	1	11/12/2013 2:18:56 PM	R14756
Carbon tetrachloride	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Chlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Chloroethane	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
Chloroform	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Chloromethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
2-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
4-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
cis-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
Dibromochloromethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Dibromomethane	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,3-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,4-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Dichlorodifluoromethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1-Dichloroethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1-Dichloroethene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,3-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
2,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-131107-DUPE
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:05:00 AM
Lab ID: 1311305-002 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Hexachlorobutadiene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
2-Hexanone	ND	1.0		µg/L	1	11/12/2013 2:18:56 PM	R14756
Isopropylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
4-Isopropyltoluene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
4-Methyl-2-pentanone	ND	1.0		µg/L	1	11/12/2013 2:18:56 PM	R14756
Methylene chloride	ND	0.30		µg/L	1	11/12/2013 2:18:56 PM	R14756
n-Butylbenzene	ND	0.30		µg/L	1	11/12/2013 2:18:56 PM	R14756
n-Propylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
sec-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Styrene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
tert-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Tetrachloroethene (PCE)	0.19	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
trans-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1,1-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,1,2-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Trichloroethene (TCE)	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Trichlorofluoromethane	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
1,2,3-Trichloropropane	ND	0.20		µg/L	1	11/12/2013 2:18:56 PM	R14756
Vinyl chloride	ND	0.10		µg/L	1	11/12/2013 2:18:56 PM	R14756
Xylenes, Total	ND	0.15		µg/L	1	11/12/2013 2:18:56 PM	R14756
Surr: Dibromofluoromethane	104	70-130		%REC	1	11/12/2013 2:18:56 PM	R14756
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	11/12/2013 2:18:56 PM	R14756
Surr: Toluene-d8	94.1	70-130		%REC	1	11/12/2013 2:18:56 PM	R14756
Surr: 4-Bromofluorobenzene	91.2	70-130		%REC	1	11/12/2013 2:18:56 PM	R14756

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:07:00 AM
Lab ID: 1311305-003 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Toluene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Ethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Naphthalene	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
1-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 2:50:35 PM	R14756
2-Methylnaphthalene	ND	0.40		µg/L	1	11/12/2013 2:50:35 PM	R14756
Acetone	ND	1.0		µg/L	1	11/12/2013 2:50:35 PM	R14756
Bromobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Bromodichloromethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Bromoform	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Bromomethane	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
2-Butanone	ND	1.0		µg/L	1	11/12/2013 2:50:35 PM	R14756
Carbon disulfide	ND	1.0		µg/L	1	11/12/2013 2:50:35 PM	R14756
Carbon tetrachloride	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Chlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Chloroethane	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
Chloroform	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Chloromethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
2-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
4-Chlorotoluene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
cis-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
Dibromochloromethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Dibromomethane	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,3-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,4-Dichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Dichlorodifluoromethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1-Dichloroethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1-Dichloroethene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,3-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
2,2-Dichloropropane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:07:00 AM
Lab ID: 1311305-003 **Matrix:** AIR
Received Date: 11/8/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Hexachlorobutadiene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
2-Hexanone	ND	1.0		µg/L	1	11/12/2013 2:50:35 PM	R14756
Isopropylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
4-Isopropyltoluene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
4-Methyl-2-pentanone	ND	1.0		µg/L	1	11/12/2013 2:50:35 PM	R14756
Methylene chloride	ND	0.30		µg/L	1	11/12/2013 2:50:35 PM	R14756
n-Butylbenzene	ND	0.30		µg/L	1	11/12/2013 2:50:35 PM	R14756
n-Propylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
sec-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Styrene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
tert-Butylbenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Tetrachloroethene (PCE)	0.20	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
trans-1,2-DCE	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1,1-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,1,2-Trichloroethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Trichloroethene (TCE)	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Trichlorofluoromethane	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
1,2,3-Trichloropropane	ND	0.20		µg/L	1	11/12/2013 2:50:35 PM	R14756
Vinyl chloride	ND	0.10		µg/L	1	11/12/2013 2:50:35 PM	R14756
Xylenes, Total	ND	0.15		µg/L	1	11/12/2013 2:50:35 PM	R14756
Surr: Dibromofluoromethane	99.6	70-130		%REC	1	11/12/2013 2:50:35 PM	R14756
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	11/12/2013 2:50:35 PM	R14756
Surr: Toluene-d8	96.2	70-130		%REC	1	11/12/2013 2:50:35 PM	R14756
Surr: 4-Bromofluorobenzene	95.0	70-130		%REC	1	11/12/2013 2:50:35 PM	R14756

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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1311305 | RcptNo: 1

Received by/date: AB 11/08/13

Logged By: **Lindsay Mangin** 11/8/2013 9:45:00 AM

Completed By: **Lindsay Mangin** 11/8/2013 9:34:32 AM

Reviewed By: 11/08/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

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

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC JOINT SuperfUND ProcessCenter

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: N/A

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1311305	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
-713	1004	AIR	AS1-131107	1 Liter Tedlar	NONE	-001										X						
-713	1005	AIR	~~AS1~~-131107-DUPE	1 Liter Tedlar	NONE	-002										X						
-713	1007	AIR	AS2-131107	1 Liter Tedlar	NONE	-003										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
-713	1400	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	11/08/13	0945

Remarks: Email Reports to Luis Guerra
Send invoice to CLC c/o Luis Guerra

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 14, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center OrderNo.: 1311306

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/8/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:35:00 AM
Lab ID: 1311306-001 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 3:02:43 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Bromoform	8.0	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 3:02:43 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 3:02:43 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Dibromochloromethane	2.1	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:35:00 AM
Lab ID: 1311306-001 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 3:02:43 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 3:02:43 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 3:02:43 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 3:02:43 AM	R14671
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%REC	1	11/9/2013 3:02:43 AM	R14671
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	11/9/2013 3:02:43 AM	R14671
Surr: Dibromofluoromethane	93.4	70-130		%REC	1	11/9/2013 3:02:43 AM	R14671
Surr: Toluene-d8	93.1	70-130		%REC	1	11/9/2013 3:02:43 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:44:00 AM
Lab ID: 1311306-002
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 3:30:31 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Bromoform	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 3:30:31 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 3:30:31 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Dibromochloromethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:44:00 AM
Lab ID: 1311306-002 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 3:30:31 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 3:30:31 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 3:30:31 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 3:30:31 AM	R14671
Surr: 1,2-Dichloroethane-d4	86.1	70-130		%REC	1	11/9/2013 3:30:31 AM	R14671
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	11/9/2013 3:30:31 AM	R14671
Surr: Dibromofluoromethane	93.4	70-130		%REC	1	11/9/2013 3:30:31 AM	R14671
Surr: Toluene-d8	93.8	70-130		%REC	1	11/9/2013 3:30:31 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:52:00 AM
Lab ID: 1311306-003
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 3:58:07 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Bromoform	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 3:58:07 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 3:58:07 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Dibromochloromethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:52:00 AM
Lab ID: 1311306-003
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 3:58:07 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 3:58:07 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 3:58:07 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 3:58:07 AM	R14671
Surr: 1,2-Dichloroethane-d4	88.8	70-130		%REC	1	11/9/2013 3:58:07 AM	R14671
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	11/9/2013 3:58:07 AM	R14671
Surr: Dibromofluoromethane	94.3	70-130		%REC	1	11/9/2013 3:58:07 AM	R14671
Surr: Toluene-d8	94.8	70-130		%REC	1	11/9/2013 3:58:07 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:54:00 AM
Lab ID: 1311306-004 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 4:25:43 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Bromoform	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 4:25:43 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 4:25:43 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Dibromochloromethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 9:54:00 AM
Lab ID: 1311306-004 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 4:25:43 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 4:25:43 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Tetrachloroethene (PCE)	16	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 4:25:43 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 4:25:43 AM	R14671
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%REC	1	11/9/2013 4:25:43 AM	R14671
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	11/9/2013 4:25:43 AM	R14671
Surr: Dibromofluoromethane	96.9	70-130		%REC	1	11/9/2013 4:25:43 AM	R14671
Surr: Toluene-d8	93.1	70-130		%REC	1	11/9/2013 4:25:43 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:00:00 AM
Lab ID: 1311306-005 **Matrix:** AQUEOUS **Received Date:** 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 4:53:29 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Bromoform	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 4:53:29 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 4:53:29 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Dibromochloromethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:00:00 AM
Lab ID: 1311306-005
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 4:53:29 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 4:53:29 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Tetrachloroethene (PCE)	12	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 4:53:29 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 4:53:29 AM	R14671
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%REC	1	11/9/2013 4:53:29 AM	R14671
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	11/9/2013 4:53:29 AM	R14671
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	11/9/2013 4:53:29 AM	R14671
Surr: Toluene-d8	96.9	70-130		%REC	1	11/9/2013 4:53:29 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:24:00 AM
Lab ID: 1311306-006
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Toluene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Ethylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Naphthalene	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
2-Methylnaphthalene	ND	4.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Acetone	ND	10		µg/L	1	11/9/2013 5:21:17 AM	R14671
Bromobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Bromodichloromethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Bromoform	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Bromomethane	ND	3.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
2-Butanone	ND	10		µg/L	1	11/9/2013 5:21:17 AM	R14671
Carbon disulfide	ND	10		µg/L	1	11/9/2013 5:21:17 AM	R14671
Carbon Tetrachloride	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Chlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Chloroethane	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Chloroform	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Chloromethane	ND	3.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
2-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
4-Chlorotoluene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
cis-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Dibromochloromethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Dibromomethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1-Dichloroethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1-Dichloroethene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,3-Dichloropropane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
2,2-Dichloropropane	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27-131107
Project: CLC Joint Superfund Process Center
Collection Date: 11/7/2013 10:24:00 AM
Lab ID: 1311306-006
Matrix: AQUEOUS
Received Date: 11/8/2013 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
1,1-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Hexachlorobutadiene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
2-Hexanone	ND	10		µg/L	1	11/9/2013 5:21:17 AM	R14671
Isopropylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
4-Isopropyltoluene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2013 5:21:17 AM	R14671
Methylene Chloride	ND	3.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
n-Butylbenzene	ND	3.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
n-Propylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
sec-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Styrene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
tert-Butylbenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Tetrachloroethene (PCE)	13	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
trans-1,2-DCE	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Trichlorofluoromethane	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Vinyl chloride	ND	1.0		µg/L	1	11/9/2013 5:21:17 AM	R14671
Xylenes, Total	ND	1.5		µg/L	1	11/9/2013 5:21:17 AM	R14671
Surr: 1,2-Dichloroethane-d4	90.4	70-130		%REC	1	11/9/2013 5:21:17 AM	R14671
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	11/9/2013 5:21:17 AM	R14671
Surr: Dibromofluoromethane	96.1	70-130		%REC	1	11/9/2013 5:21:17 AM	R14671
Surr: Toluene-d8	93.8	70-130		%REC	1	11/9/2013 5:21:17 AM	R14671

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1311306**

14-Nov-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R14671**	RunNo: **14671**
Prep Date:	Analysis Date: **11/8/2013**	SeqNo: **422129** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1311306**

14-Nov-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R14671**	RunNo: **14671**
Prep Date:	Analysis Date: **11/8/2013**	SeqNo: **422129** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.3	70	130			
Surr: Toluene-d8	9.6		10.00		96.2	70	130			

Sample ID **100ng lcsb**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R14671**	RunNo: **14671**
Prep Date:	Analysis Date: **11/8/2013**	SeqNo: **422130** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	22	1.0	20.00	0	111	82.2	124			
Chlorobenzene	21	1.0	20.00	0	105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1311306**

14-Nov-13

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center

Sample ID **100ng lcsb**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R14671**	RunNo: **14671**
Prep Date:	Analysis Date: **11/8/2013**	SeqNo: **422130** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26	1.0	20.00	0	130	83.5	155			
Trichloroethene (TCE)	20	1.0	20.00	0	99.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.5	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.1	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.9	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1311306 RcptNo: 1

Received by/date: AG 11/08/13

Logged By: **Lindsay Mangin** 11/8/2013 8:45:00 AM

Completed By: **Lindsay Mangin** 11/8/2013 9:39:59 AM

Reviewed By: IO 11/08/13

Chain of Custody

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? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
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 ☑ NA ☐
10. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: CLC Joint Superfund Process Center

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1311306	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
11-7-13	9:35	Ground H2O	ESI-131107	3-40ml Vial	HgCl2	-001										X		
11-7-13	9:44	Ground H2O	C2-131107	3-40ml Vial	HgCl2	-002										X		
11-7-13	9:52	Ground H2O	C1-131107	3-40ml Vial	HgCl2	-003										X		
11-7-13	9:54	Ground H2O	ISI-131107	3-40ml Vial	HgCl2	-004										X		
11-7-13	10:00	Ground H2O	CLC18-131107	3-40ml Vial	HgCl2	-005										X		
11-7-13	10:24	Ground H2O	CLC27-131107	3-40ml Vial	HgCl2	-006										X		
					~~HgCl2~~													

Date:	Time:	Relinquished by:	Received by:	Date	Time
11-7-13	1400	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	11/07/13 Date	0845 Time

Remarks: Email Results to Luis Guerra
Send invoice to CLC c/o Luis Guerra

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.

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

December 11, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1312209

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/5/2013 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1312209**
Date Reported: **12/11/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 10:04:00 AM
Lab ID: 1312209-001A
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**
Benzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Toluene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Ethylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Naphthalene	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
1-Methylnaphthalene	ND	0.40		µg/L	1	12/6/2013 10:22:42 AM
2-Methylnaphthalene	ND	0.40		µg/L	1	12/6/2013 10:22:42 AM
Acetone	ND	1.0		µg/L	1	12/6/2013 10:22:42 AM
Bromobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Bromodichloromethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Bromoform	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Bromomethane	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
2-Butanone	ND	1.0		µg/L	1	12/6/2013 10:22:42 AM
Carbon disulfide	ND	1.0		µg/L	1	12/6/2013 10:22:42 AM
Carbon tetrachloride	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Chlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Chloroethane	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
Chloroform	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Chloromethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
2-Chlorotoluene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
4-Chlorotoluene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
cis-1,2-DCE	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
Dibromochloromethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Dibromomethane	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
1,2-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,3-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,4-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Dichlorodifluoromethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1-Dichloroethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1-Dichloroethene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,3-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
2,2-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Hexachlorobutadiene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 10:04:00 AM
Lab ID: 1312209-001A
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**
2-Hexanone	ND	1.0		µg/L	1	12/6/2013 10:22:42 AM
Isopropylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
4-Isopropyltoluene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
4-Methyl-2-pentanone	ND	1.0		µg/L	1	12/6/2013 10:22:42 AM
Methylene chloride	ND	0.30		µg/L	1	12/6/2013 10:22:42 AM
n-Butylbenzene	ND	0.30		µg/L	1	12/6/2013 10:22:42 AM
n-Propylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
sec-Butylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Styrene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
tert-Butylbenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Tetrachloroethene (PCE)	0.15	0.10		µg/L	1	12/6/2013 10:22:42 AM
trans-1,2-DCE	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1,1-Trichloroethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,1,2-Trichloroethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Trichloroethene (TCE)	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Trichlorofluoromethane	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
1,2,3-Trichloropropane	ND	0.20		µg/L	1	12/6/2013 10:22:42 AM
Vinyl chloride	ND	0.10		µg/L	1	12/6/2013 10:22:42 AM
Xylenes, Total	ND	0.15		µg/L	1	12/6/2013 10:22:42 AM
Surr: Dibromofluoromethane	92.8	70-130		%REC	1	12/6/2013 10:22:42 AM
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%REC	1	12/6/2013 10:22:42 AM
Surr: Toluene-d8	97.2	70-130		%REC	1	12/6/2013 10:22:42 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%REC	1	12/6/2013 10:22:42 AM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 10:08:00 AM
Lab ID: 1312209-002A
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**
Benzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Toluene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Ethylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Naphthalene	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
1-Methylnaphthalene	ND	0.40		µg/L	1	12/6/2013 11:18:50 AM
2-Methylnaphthalene	ND	0.40		µg/L	1	12/6/2013 11:18:50 AM
Acetone	ND	1.0		µg/L	1	12/6/2013 11:18:50 AM
Bromobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Bromodichloromethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Bromoform	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Bromomethane	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
2-Butanone	ND	1.0		µg/L	1	12/6/2013 11:18:50 AM
Carbon disulfide	ND	1.0		µg/L	1	12/6/2013 11:18:50 AM
Carbon tetrachloride	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Chlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Chloroethane	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
Chloroform	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Chloromethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
2-Chlorotoluene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
4-Chlorotoluene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
cis-1,2-DCE	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
Dibromochloromethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Dibromomethane	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
1,2-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,3-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,4-Dichlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Dichlorodifluoromethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1-Dichloroethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1-Dichloroethene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,3-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
2,2-Dichloropropane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Hexachlorobutadiene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 10:08:00 AM
Lab ID: 1312209-002A
Matrix: Air

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**
2-Hexanone	ND	1.0		µg/L	1	12/6/2013 11:18:50 AM
Isopropylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
4-Isopropyltoluene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
4-Methyl-2-pentanone	ND	1.0		µg/L	1	12/6/2013 11:18:50 AM
Methylene chloride	ND	0.30		µg/L	1	12/6/2013 11:18:50 AM
n-Butylbenzene	ND	0.30		µg/L	1	12/6/2013 11:18:50 AM
n-Propylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
sec-Butylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Styrene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
tert-Butylbenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Tetrachloroethene (PCE)	0.15	0.10		µg/L	1	12/6/2013 11:18:50 AM
trans-1,2-DCE	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1,1-Trichloroethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,1,2-Trichloroethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Trichloroethene (TCE)	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Trichlorofluoromethane	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
1,2,3-Trichloropropane	ND	0.20		µg/L	1	12/6/2013 11:18:50 AM
Vinyl chloride	ND	0.10		µg/L	1	12/6/2013 11:18:50 AM
Xylenes, Total	ND	0.15		µg/L	1	12/6/2013 11:18:50 AM
Surr: Dibromofluoromethane	92.8	70-130		%REC	1	12/6/2013 11:18:50 AM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	12/6/2013 11:18:50 AM
Surr: Toluene-d8	94.8	70-130		%REC	1	12/6/2013 11:18:50 AM
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	1	12/6/2013 11:18:50 AM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1312209 RcptNo: 1

Received by/date: 12/05/13

Logged By: Lindsay Mangin 12/5/2013 9:45:00 AM

Completed By: Lindsay Mangin 12/5/2013 1:57:59 PM

Reviewed By: MG 12/05/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: lguerra@las-cruces.org

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

☒ Standard ☐ Rush

Project Name: CLC-JOINT SUPERFUND PROJECT

Project #:

Project Manager: ~~Douglas Rs~~ Sm Luis Guerra

Sampler: Laura Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: N/A

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1312209
12/4/13	1004	AIR	AS1-131204	1 Liter Tedlar Bag	NONE	-001
12/4/13	1008	AIR	AS2-131204	1 Liter Bag	NONE	-002

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
									X						
									X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
12-4-13	1430	Laura Montoya		12/05/13	0945
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please email Reports to lguerra @las-cruces.org.

Send invoice to Luis Guerra % CLC

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 11, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: JSP Process Center OrderNo.: 1312247

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/5/2013 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:08:00 AM
Lab ID: 1312247-001
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 7:41:07 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 7:41:07 PM
Acetone	ND	10		µg/L	1	12/6/2013 7:41:07 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 7:41:07 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 7:41:07 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 7:41:07 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 7:41:07 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:08:00 AM
Lab ID: 1312247-001
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 7:41:07 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 7:41:07 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 7:41:07 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 7:41:07 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM
Tetrachloroethene (PCE)	9.8	1.0		µg/L	1	12/6/2013 7:41:07 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 7:41:07 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 7:41:07 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 7:41:07 PM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	12/6/2013 7:41:07 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	12/6/2013 7:41:07 PM
Surr: Dibromofluoromethane	104	70-130		%REC	1	12/6/2013 7:41:07 PM
Surr: Toluene-d8	98.2	70-130		%REC	1	12/6/2013 7:41:07 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:28:00 AM
Lab ID: 1312247-002
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 8:09:40 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 8:09:40 PM
Acetone	ND	10		µg/L	1	12/6/2013 8:09:40 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 8:09:40 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 8:09:40 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 8:09:40 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 8:09:40 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:28:00 AM
Lab ID: 1312247-002
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 8:09:40 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 8:09:40 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 8:09:40 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 8:09:40 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM
Tetrachloroethene (PCE)	23	1.0		µg/L	1	12/6/2013 8:09:40 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 8:09:40 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 8:09:40 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 8:09:40 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	12/6/2013 8:09:40 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/6/2013 8:09:40 PM
Surr: Dibromofluoromethane	107	70-130		%REC	1	12/6/2013 8:09:40 PM
Surr: Toluene-d8	96.7	70-130		%REC	1	12/6/2013 8:09:40 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:40:00 AM
Lab ID: 1312247-003
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 8:38:10 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 8:38:10 PM
Acetone	ND	10		µg/L	1	12/6/2013 8:38:10 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Bromoform	5.6	1.0		µg/L	1	12/6/2013 8:38:10 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 8:38:10 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 8:38:10 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 8:38:10 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 8:38:10 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM
Dibromochloromethane	2.6	1.0		µg/L	1	12/6/2013 8:38:10 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:40:00 AM
Lab ID: 1312247-003
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 8:38:10 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 8:38:10 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 8:38:10 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 8:38:10 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 8:38:10 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 8:38:10 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 8:38:10 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	12/6/2013 8:38:10 PM
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/6/2013 8:38:10 PM
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/6/2013 8:38:10 PM
Surr: Toluene-d8	98.8	70-130		%REC	1	12/6/2013 8:38:10 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:45:00 AM
Lab ID: 1312247-004 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 10:32:01 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 10:32:01 PM
Acetone	ND	10		µg/L	1	12/6/2013 10:32:01 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 10:32:01 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 10:32:01 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 10:32:01 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 10:32:01 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:45:00 AM
Lab ID: 1312247-004
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 10:32:01 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 10:32:01 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 10:32:01 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 10:32:01 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM
Tetrachloroethene (PCE)	12	1.0		µg/L	1	12/6/2013 10:32:01 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 10:32:01 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 10:32:01 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 10:32:01 PM
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	12/6/2013 10:32:01 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	12/6/2013 10:32:01 PM
Surr: Dibromofluoromethane	103	70-130		%REC	1	12/6/2013 10:32:01 PM
Surr: Toluene-d8	99.4	70-130		%REC	1	12/6/2013 10:32:01 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:52:00 AM
Lab ID: 1312247-005
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:00:25 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:00:25 PM
Acetone	ND	10		µg/L	1	12/6/2013 11:00:25 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 11:00:25 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 11:00:25 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 11:00:25 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 11:00:25 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:52:00 AM
Lab ID: 1312247-005
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 11:00:25 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 11:00:25 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 11:00:25 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 11:00:25 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 11:00:25 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 11:00:25 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 11:00:25 PM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%REC	1	12/6/2013 11:00:25 PM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	12/6/2013 11:00:25 PM
Surr: Dibromofluoromethane	99.7	70-130		%REC	1	12/6/2013 11:00:25 PM
Surr: Toluene-d8	95.3	70-130		%REC	1	12/6/2013 11:00:25 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:57:00 AM
Lab ID: 1312247-006
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:28:48 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:28:48 PM
Acetone	ND	10		µg/L	1	12/6/2013 11:28:48 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 11:28:48 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 11:28:48 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 11:28:48 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 11:28:48 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-131204
Project: JSP Process Center
Collection Date: 12/4/2013 9:57:00 AM
Lab ID: 1312247-006
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 11:28:48 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 11:28:48 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 11:28:48 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 11:28:48 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 11:28:48 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 11:28:48 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 11:28:48 PM
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%REC	1	12/6/2013 11:28:48 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	12/6/2013 11:28:48 PM
Surr: Dibromofluoromethane	107	70-130		%REC	1	12/6/2013 11:28:48 PM
Surr: Toluene-d8	99.9	70-130		%REC	1	12/6/2013 11:28:48 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131204-B
Project: JSP Process Center
Collection Date: 12/4/2013 12:30:00 PM
Lab ID: 1312247-007
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
Benzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Toluene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Ethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Naphthalene	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:57:11 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/6/2013 11:57:11 PM
Acetone	ND	10		µg/L	1	12/6/2013 11:57:11 PM
Bromobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Bromoform	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Bromomethane	ND	3.0		µg/L	1	12/6/2013 11:57:11 PM
2-Butanone	ND	10		µg/L	1	12/6/2013 11:57:11 PM
Carbon disulfide	ND	10		µg/L	1	12/6/2013 11:57:11 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Chlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Chloroethane	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM
Chloroform	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Chloromethane	ND	3.0		µg/L	1	12/6/2013 11:57:11 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Dibromomethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-131204-B
Project: JSP Process Center
Collection Date: 12/4/2013 12:30:00 PM
Lab ID: 1312247-007
Matrix: AQUEOUS
Received Date: 12/5/2013 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**
1,1-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
2-Hexanone	ND	10		µg/L	1	12/6/2013 11:57:11 PM
Isopropylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/6/2013 11:57:11 PM
Methylene Chloride	ND	3.0		µg/L	1	12/6/2013 11:57:11 PM
n-Butylbenzene	ND	3.0		µg/L	1	12/6/2013 11:57:11 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Styrene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM
Tetrachloroethene (PCE)	5.8	1.0		µg/L	1	12/6/2013 11:57:11 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/6/2013 11:57:11 PM
Vinyl chloride	ND	1.0		µg/L	1	12/6/2013 11:57:11 PM
Xylenes, Total	ND	1.5		µg/L	1	12/6/2013 11:57:11 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	12/6/2013 11:57:11 PM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	12/6/2013 11:57:11 PM
Surr: Dibromofluoromethane	99.1	70-130		%REC	1	12/6/2013 11:57:11 PM
Surr: Toluene-d8	103	70-130		%REC	1	12/6/2013 11:57:11 PM

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312247**

11-Dec-13

Client: City of Las Cruces

Project: JSP Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441065** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312247**

11-Dec-13

Client: City of Las Cruces

Project: JSP Process Center

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441065** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.9	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441067** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	70	130			
Toluene	19	1.0	20.00	0	94.5	82.2	124			
Chlorobenzene	18	1.0	20.00	0	92.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312247**

11-Dec-13

Client: City of Las Cruces

Project: JSP Process Center

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441067** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	107	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	82.8	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.3	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID **1312233-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441071** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	140	1.0	20.00	118.5	114	67.9	137			E
Toluene	20	1.0	20.00	0	101	77	127			
Chlorobenzene	20	1.0	20.00	0	97.7	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	113	66.5	131			
Trichloroethene (TCE)	19	1.0	20.00	0	92.5	66.3	134			
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	25		10.00		251	70	130			S
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.6		10.00		95.5	70	130			

Sample ID **1312233-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R15291**	RunNo: **15291**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441072** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	140	1.0	20.00	118.5	96.1	67.9	137	2.64	20	E
Toluene	20	1.0	20.00	0	98.0	77	127	3.15	20	
Chlorobenzene	18	1.0	20.00	0	91.2	70	130	6.89	20	
1,1-Dichloroethene	21	1.0	20.00	0	107	66.5	131	5.14	20	
Trichloroethene (TCE)	17	1.0	20.00	0	85.5	66.3	134	7.86	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	25		10.00		250	70	130	0	0	S
Surr: Dibromofluoromethane	9.9		10.00		99.5	70	130	0	0	
Surr: Toluene-d8	9.7		10.00		97.2	70	130	0	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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1312247 RcptNo: 1

Received by/date: KM 12/05/2013

Logged By: Ashley Gallegos 12/5/2013 9:45:00 AM

Completed By: Ashley Gallegos 12/6/2013 9:16:19 AM

Reviewed By: MS 12/06/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
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: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #:

email or Fax#: lguerra@las-cruces.org

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn Around Time:
☒ Standard ☐ Rush

Project Name: JSP Process Center

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HEAL No. 1312247

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
12/4/13	9:08	DI H2O	CLC 27-131204	3-40ml Vial	HgCl2	-001
12/4/13	928	"	CLC 18-131204	3-40ml Vial	HgCl2	-002
12/4/13	0940	"	ES1-131204	3-40ml Vial	HgCl2	-003
12/4/13	0945	"	IS1-131204	3-40ml Vial	HgCl2	-004
12/4/13	0952	"	C1-131204	3-40ml Vial	HgCl2	-005
12/4/13	0957	DI H2O	C2-131204	3-40ml Vial	HgCl2	-006
12/4/13	1230	DI H2O	IS1-131204-B	3-40ml Vial	HgCl2	-007

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
									X						
									X						
									X						
									X						
									X						
									X						
									X						

Date	Time	Relinquished by:	Received by:	Date	Time
12/4/13	1430	Laura Montoya			
				12/05/13	0945

Remarks: Please email Reports to lguerra@las-cruces.org
Send invoice to Luis Guerra % CL

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.

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

December 18, 2013

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1312588

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/13/2013 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1312588**
Date Reported: **12/18/2013**

CLIENT: City of Las Cruces
Client Sample ID: MWSF-2_131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 12:55:00 PM
Lab ID: 1312588-001 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Toluene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Ethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Naphthalene	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Acetone	ND	10		µg/L	1	12/16/2013 6:18:40 PM	R15532
Bromobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Bromoform	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Bromomethane	ND	3.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
2-Butanone	ND	10		µg/L	1	12/16/2013 6:18:40 PM	R15532
Carbon disulfide	ND	10		µg/L	1	12/16/2013 6:18:40 PM	R15532
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Chlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Chloroethane	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Chloroform	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Chloromethane	ND	3.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Dibromomethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF-2_131204
Project: CLC Joint Superfund Project
Collection Date: 12/4/2013 12:55:00 PM
Lab ID: 1312588-001 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
2-Hexanone	ND	10		µg/L	1	12/16/2013 6:18:40 PM	R15532
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2013 6:18:40 PM	R15532
Methylene Chloride	ND	3.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
n-Butylbenzene	ND	3.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Styrene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Tetrachloroethene (PCE)	7.5	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Vinyl chloride	ND	1.0		µg/L	1	12/16/2013 6:18:40 PM	R15532
Xylenes, Total	ND	1.5		µg/L	1	12/16/2013 6:18:40 PM	R15532
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	12/16/2013 6:18:40 PM	R15532
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	12/16/2013 6:18:40 PM	R15532
Surr: Dibromofluoromethane	108	70-130		%REC	1	12/16/2013 6:18:40 PM	R15532
Surr: Toluene-d8	102	70-130		%REC	1	12/16/2013 6:18:40 PM	R15532

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-3_131212
Project: CLC Joint Superfund Project
Collection Date: 12/12/2013 10:32:00 AM
Lab ID: 1312588-002 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Toluene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Ethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Naphthalene	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Acetone	ND	10		µg/L	1	12/16/2013 6:47:18 PM	R15532
Bromobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Bromoform	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Bromomethane	ND	3.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
2-Butanone	ND	10		µg/L	1	12/16/2013 6:47:18 PM	R15532
Carbon disulfide	ND	10		µg/L	1	12/16/2013 6:47:18 PM	R15532
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Chlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Chloroethane	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Chloroform	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Chloromethane	ND	3.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Dibromomethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532

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Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-3_131212
Project: CLC Joint Superfund Project
Collection Date: 12/12/2013 10:32:00 AM
Lab ID: 1312588-002 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
2-Hexanone	ND	10		µg/L	1	12/16/2013 6:47:18 PM	R15532
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2013 6:47:18 PM	R15532
Methylene Chloride	ND	3.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
n-Butylbenzene	ND	3.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Styrene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Vinyl chloride	ND	1.0		µg/L	1	12/16/2013 6:47:18 PM	R15532
Xylenes, Total	ND	1.5		µg/L	1	12/16/2013 6:47:18 PM	R15532
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	12/16/2013 6:47:18 PM	R15532
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	12/16/2013 6:47:18 PM	R15532
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/16/2013 6:47:18 PM	R15532
Surr: Toluene-d8	97.6	70-130		%REC	1	12/16/2013 6:47:18 PM	R15532

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Qualifiers:

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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
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-4_131212
Project: CLC Joint Superfund Project
Collection Date: 12/12/2013 10:16:00 AM
Lab ID: 1312588-003 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Toluene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Ethylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Naphthalene	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Acetone	ND	10		µg/L	1	12/16/2013 7:15:57 PM	R15532
Bromobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Bromoform	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Bromomethane	ND	3.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
2-Butanone	ND	10		µg/L	1	12/16/2013 7:15:57 PM	R15532
Carbon disulfide	ND	10		µg/L	1	12/16/2013 7:15:57 PM	R15532
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Chlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Chloroethane	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Chloroform	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Chloromethane	ND	3.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Dibromomethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532

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Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-4_131212
Project: CLC Joint Superfund Project
Collection Date: 12/12/2013 10:16:00 AM
Lab ID: 1312588-003 **Matrix:** AQUEOUS **Received Date:** 12/13/2013 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
2-Hexanone	ND	10		µg/L	1	12/16/2013 7:15:57 PM	R15532
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2013 7:15:57 PM	R15532
Methylene Chloride	ND	3.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
n-Butylbenzene	ND	3.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Styrene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Tetrachloroethene (PCE)	1.6	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Vinyl chloride	ND	1.0		µg/L	1	12/16/2013 7:15:57 PM	R15532
Xylenes, Total	ND	1.5		µg/L	1	12/16/2013 7:15:57 PM	R15532
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	12/16/2013 7:15:57 PM	R15532
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	12/16/2013 7:15:57 PM	R15532
Surr: Dibromofluoromethane	107	70-130		%REC	1	12/16/2013 7:15:57 PM	R15532
Surr: Toluene-d8	97.5	70-130		%REC	1	12/16/2013 7:15:57 PM	R15532

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S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312588**

18-Dec-13

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15532**	RunNo: **15532**
Prep Date:	Analysis Date: **12/16/2013**	SeqNo: **446785** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312588**

18-Dec-13

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15532**	RunNo: **15532**
Prep Date:	Analysis Date: **12/16/2013**	SeqNo: **446785** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		115	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.8		10.00		98.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15532**	RunNo: **15532**
Prep Date:	Analysis Date: **12/16/2013**	SeqNo: **446788** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.0	70	130			
Toluene	18	1.0	20.00	0	89.7	82.2	124			
Chlorobenzene	17	1.0	20.00	0	84.6	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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312588**

18-Dec-13

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**						
Client ID: **LCSW**	Batch ID: **R15532**	RunNo: **15532**						
Prep Date:	Analysis Date: **12/16/2013**	SeqNo: **446788**	Units: **µg/L**					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	103	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	83.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	9.7		10.00		96.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1312588 RcptNo: 1

Received by/date: RM 12/13/13

Logged By: Ashley Gallegos 12/13/2013 9:30:00 AM AG

Completed By: Ashley Gallegos 12/13/2013 11:31:16 AM AG

Reviewed By: 12/13/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. 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:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: lguerra@las-cruces.org

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

☒ Standard ☐ Rush _____

Project Name: CLC-Joint Superfund Proj

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1312588	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
12/4/13	1255	Ground H2O	MWSF-2_131204	3-40mlVial	HgCl2	-001										X						
12/12/13	1032	Ground H2O	MW-3_131212	3-40mlVial	HgCl2	-002										X						
12/12/13	1016	Ground H2O	MW-4_131212	3-40mlVial	HgCl2	-003										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/12/13	1335	Laura Montoya		12/13/13	0930
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please send reports to lguerra@las-cruces.org Send invoice to CLC-Wat c/o Luis Guerra, P.O. Box 20000, Las Cruces, NM 88004

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.

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

January 02, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1312A01

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/20/2013 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF9-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:10:00 AM
Lab ID: 1312A01-001 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Toluene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Ethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Naphthalene	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Acetone	ND	10		µg/L	1	12/25/2013 7:25:02 PM	R15723
Bromobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Bromoform	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Bromomethane	ND	3.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
2-Butanone	ND	10		µg/L	1	12/25/2013 7:25:02 PM	R15723
Carbon disulfide	ND	10		µg/L	1	12/25/2013 7:25:02 PM	R15723
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Chlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Chloroethane	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Chloroform	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Chloromethane	ND	3.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Dibromomethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF9-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:10:00 AM
Lab ID: 1312A01-001 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
2-Hexanone	ND	10		µg/L	1	12/25/2013 7:25:02 PM	R15723
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2013 7:25:02 PM	R15723
Methylene Chloride	ND	3.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Styrene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Vinyl chloride	ND	1.0		µg/L	1	12/25/2013 7:25:02 PM	R15723
Xylenes, Total	ND	1.5		µg/L	1	12/25/2013 7:25:02 PM	R15723
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	12/25/2013 7:25:02 PM	R15723
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	12/25/2013 7:25:02 PM	R15723
Surr: Dibromofluoromethane	101	70-130		%REC	1	12/25/2013 7:25:02 PM	R15723
Surr: Toluene-d8	96.3	70-130		%REC	1	12/25/2013 7:25:02 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF10-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:38:00 AM
Lab ID: 1312A01-002 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Toluene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Ethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Naphthalene	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Acetone	ND	10		µg/L	1	12/25/2013 7:53:36 PM	R15723
Bromobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Bromoform	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Bromomethane	ND	3.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
2-Butanone	ND	10		µg/L	1	12/25/2013 7:53:36 PM	R15723
Carbon disulfide	ND	10		µg/L	1	12/25/2013 7:53:36 PM	R15723
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Chlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Chloroethane	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Chloroform	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Chloromethane	ND	3.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Dibromomethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF10-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:38:00 AM
Lab ID: 1312A01-002 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
2-Hexanone	ND	10		µg/L	1	12/25/2013 7:53:36 PM	R15723
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2013 7:53:36 PM	R15723
Methylene Chloride	ND	3.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Styrene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Tetrachloroethene (PCE)	12	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Vinyl chloride	ND	1.0		µg/L	1	12/25/2013 7:53:36 PM	R15723
Xylenes, Total	ND	1.5		µg/L	1	12/25/2013 7:53:36 PM	R15723
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%REC	1	12/25/2013 7:53:36 PM	R15723
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	12/25/2013 7:53:36 PM	R15723
Surr: Dibromofluoromethane	104	70-130		%REC	1	12/25/2013 7:53:36 PM	R15723
Surr: Toluene-d8	97.9	70-130		%REC	1	12/25/2013 7:53:36 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF10-131218 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:40:00 AM
Lab ID: 1312A01-003 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Toluene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Ethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Naphthalene	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Acetone	ND	10		µg/L	1	12/25/2013 8:22:10 PM	R15723
Bromobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Bromoform	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Bromomethane	ND	3.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
2-Butanone	ND	10		µg/L	1	12/25/2013 8:22:10 PM	R15723
Carbon disulfide	ND	10		µg/L	1	12/25/2013 8:22:10 PM	R15723
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Chlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Chloroethane	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Chloroform	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Chloromethane	ND	3.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Dibromomethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF10-131218 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 10:40:00 AM
Lab ID: 1312A01-003 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
2-Hexanone	ND	10		µg/L	1	12/25/2013 8:22:10 PM	R15723
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2013 8:22:10 PM	R15723
Methylene Chloride	ND	3.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Styrene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Tetrachloroethene (PCE)	11	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Vinyl chloride	ND	1.0		µg/L	1	12/25/2013 8:22:10 PM	R15723
Xylenes, Total	ND	1.5		µg/L	1	12/25/2013 8:22:10 PM	R15723
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	12/25/2013 8:22:10 PM	R15723
Surr: 4-Bromofluorobenzene	116	70-130		%REC	1	12/25/2013 8:22:10 PM	R15723
Surr: Dibromofluoromethane	106	70-130		%REC	1	12/25/2013 8:22:10 PM	R15723
Surr: Toluene-d8	97.8	70-130		%REC	1	12/25/2013 8:22:10 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF-5-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 1:50:00 PM
Lab ID: 1312A01-004 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Toluene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Ethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Naphthalene	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Acetone	ND	10		µg/L	1	12/25/2013 8:50:43 PM	R15723
Bromobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Bromoform	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Bromomethane	ND	3.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
2-Butanone	ND	10		µg/L	1	12/25/2013 8:50:43 PM	R15723
Carbon disulfide	ND	10		µg/L	1	12/25/2013 8:50:43 PM	R15723
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Chlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Chloroethane	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Chloroform	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Chloromethane	ND	3.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Dibromomethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF-5-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 1:50:00 PM
Lab ID: 1312A01-004 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
2-Hexanone	ND	10		µg/L	1	12/25/2013 8:50:43 PM	R15723
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2013 8:50:43 PM	R15723
Methylene Chloride	ND	3.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Styrene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Vinyl chloride	ND	1.0		µg/L	1	12/25/2013 8:50:43 PM	R15723
Xylenes, Total	ND	1.5		µg/L	1	12/25/2013 8:50:43 PM	R15723
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%REC	1	12/25/2013 8:50:43 PM	R15723
Surr: 4-Bromofluorobenzene	116	70-130		%REC	1	12/25/2013 8:50:43 PM	R15723
Surr: Dibromofluoromethane	105	70-130		%REC	1	12/25/2013 8:50:43 PM	R15723
Surr: Toluene-d8	92.9	70-130		%REC	1	12/25/2013 8:50:43 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF-6-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 2:12:00 PM
Lab ID: 1312A01-005 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Toluene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Ethylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Naphthalene	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
2-Methylnaphthalene	ND	4.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Acetone	ND	10		µg/L	1	12/25/2013 9:19:15 PM	R15723
Bromobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Bromodichloromethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Bromoform	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Bromomethane	ND	3.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
2-Butanone	ND	10		µg/L	1	12/25/2013 9:19:15 PM	R15723
Carbon disulfide	ND	10		µg/L	1	12/25/2013 9:19:15 PM	R15723
Carbon Tetrachloride	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Chlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Chloroethane	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Chloroform	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Chloromethane	ND	3.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
2-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
4-Chlorotoluene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
cis-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Dibromochloromethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Dibromomethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1-Dichloroethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1-Dichloroethene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,3-Dichloropropane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
2,2-Dichloropropane	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF-6-131218
Project: CLC Joint Superfund Project
Collection Date: 12/18/2013 2:12:00 PM
Lab ID: 1312A01-005 **Matrix:** AQUEOUS **Received Date:** 12/20/2013 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Hexachlorobutadiene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
2-Hexanone	ND	10		µg/L	1	12/25/2013 9:19:15 PM	R15723
Isopropylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
4-Isopropyltoluene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
4-Methyl-2-pentanone	ND	10		µg/L	1	12/25/2013 9:19:15 PM	R15723
Methylene Chloride	ND	3.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
n-Butylbenzene	ND	3.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
n-Propylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
sec-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Styrene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
tert-Butylbenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
trans-1,2-DCE	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Trichlorofluoromethane	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Vinyl chloride	ND	1.0		µg/L	1	12/25/2013 9:19:15 PM	R15723
Xylenes, Total	ND	1.5		µg/L	1	12/25/2013 9:19:15 PM	R15723
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%REC	1	12/25/2013 9:19:15 PM	R15723
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	12/25/2013 9:19:15 PM	R15723
Surr: Dibromofluoromethane	107	70-130		%REC	1	12/25/2013 9:19:15 PM	R15723
Surr: Toluene-d8	95.0	70-130		%REC	1	12/25/2013 9:19:15 PM	R15723

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1312A01**
02-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R15723**	RunNo: **15723**	
Prep Date:	Analysis Date: **12/24/2013**	SeqNo: **453656**	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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312A01**

02-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15723**	RunNo: **15723**
Prep Date:	Analysis Date: **12/24/2013**	SeqNo: **453656** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		99.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	8.9		10.00		89.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15723**	RunNo: **15723**
Prep Date:	Analysis Date: **12/24/2013**	SeqNo: **453658** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	19	1.0	20.00	0	94.2	82.2	124			
Chlorobenzene	17	1.0	20.00	0	86.4	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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312A01**

02-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15723**	RunNo: **15723**
Prep Date:	Analysis Date: **12/24/2013**	SeqNo: **453658** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	85.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.9		10.00		99.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1312A01 RcptNo: 1

Received by/date: 12/20/13

Logged By: **Lindsay Mangin** 12/20/2013 11:30:00 AM

Completed By: **Lindsay Mangin** 12/20/2013 1:22:11 PM

Reviewed By: 12/23/13

Chain of Custody

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?	UPS		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain of Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: City of Las Cruces	☐ Standard ☐ Rush
Mailing Address: P.O. Box 20000 Las Cruces, NM 88004	Project Name: CLC Joint Superfund Project
Phone #: 575-528-3609	Project #:
email or Fax#: lguerra@las-cruces.org	Project Manager: Luis Guerra
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: Laura Montoya
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☒ EDD (Type) EXCEL	Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1312A01	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)				
12/18/13	1010	Ground H2O	MWSF9-131218	3-40ml Vial	HgCl2	-001										X					
12/18/13	1038	Ground H2O	MWSF10-131218	3-40ml Vial	HgCl2	-002										X					
12/18/13	1040	Ground H2O	MWSF10-131218 (DUP)	3-40ml	HgCl2	-003										X					
12/18/13	1350	Ground H2O	MWSF-5-131218	3-40ml	HgCl2	-004										X					
12/18/13	1412	Ground H2O	MWSF-6-131218	3-40ml	HgCl2	-005										X					

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/19/13	1540	Laura Montoya		12/20/13	1130
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send reports to lguerra@las-cruces.org
Send invoice to Luis Guerra % CLC

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.

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

January 09, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1401083

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/3/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC26_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 1:05:00 PM
Lab ID: 1401083-001
Matrix: AQUEOUS
Received Date: 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Toluene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Ethylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Naphthalene	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
2-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Acetone	ND	10		µg/L	1	1/6/2014 3:26:29 PM	R15914
Bromobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Bromodichloromethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Bromoform	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Bromomethane	ND	3.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
2-Butanone	ND	10		µg/L	1	1/6/2014 3:26:29 PM	R15914
Carbon disulfide	ND	10		µg/L	1	1/6/2014 3:26:29 PM	R15914
Carbon Tetrachloride	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Chlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Chloroethane	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Chloroform	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Chloromethane	ND	3.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
2-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
4-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
cis-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Dibromochloromethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Dibromomethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1-Dichloroethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1-Dichloroethene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,3-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
2,2-Dichloropropane	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC26_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 1:05:00 PM
Lab ID: 1401083-001
Matrix: AQUEOUS
Received Date: 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Hexachlorobutadiene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
2-Hexanone	ND	10		µg/L	1	1/6/2014 3:26:29 PM	R15914
Isopropylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
4-Isopropyltoluene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
4-Methyl-2-pentanone	ND	10		µg/L	1	1/6/2014 3:26:29 PM	R15914
Methylene Chloride	ND	3.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
n-Butylbenzene	ND	3.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
n-Propylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
sec-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Styrene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
tert-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
trans-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Trichlorofluoromethane	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Vinyl chloride	ND	1.0		µg/L	1	1/6/2014 3:26:29 PM	R15914
Xylenes, Total	ND	1.5		µg/L	1	1/6/2014 3:26:29 PM	R15914
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	1	1/6/2014 3:26:29 PM	R15914
Surr: 4-Bromofluorobenzene	113	70-130		%REC	1	1/6/2014 3:26:29 PM	R15914
Surr: Dibromofluoromethane	107	70-130		%REC	1	1/6/2014 3:26:29 PM	R15914
Surr: Toluene-d8	96.6	70-130		%REC	1	1/6/2014 3:26:29 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLCPP_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 1:22:00 PM
Lab ID: 1401083-002
Matrix: AQUEOUS
Received Date: 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Toluene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Ethylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Naphthalene	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
2-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Acetone	ND	10		µg/L	1	1/6/2014 4:53:00 PM	R15914
Bromobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Bromodichloromethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Bromoform	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Bromomethane	ND	3.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
2-Butanone	ND	10		µg/L	1	1/6/2014 4:53:00 PM	R15914
Carbon disulfide	ND	10		µg/L	1	1/6/2014 4:53:00 PM	R15914
Carbon Tetrachloride	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Chlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Chloroethane	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Chloroform	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Chloromethane	ND	3.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
2-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
4-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
cis-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Dibromochloromethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Dibromomethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1-Dichloroethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1-Dichloroethene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,3-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
2,2-Dichloropropane	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLCPP_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 1:22:00 PM
Lab ID: 1401083-002 **Matrix:** AQUEOUS **Received Date:** 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Hexachlorobutadiene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
2-Hexanone	ND	10		µg/L	1	1/6/2014 4:53:00 PM	R15914
Isopropylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
4-Isopropyltoluene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
4-Methyl-2-pentanone	ND	10		µg/L	1	1/6/2014 4:53:00 PM	R15914
Methylene Chloride	ND	3.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
n-Butylbenzene	ND	3.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
n-Propylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
sec-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Styrene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
tert-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
trans-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Trichlorofluoromethane	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Vinyl chloride	ND	1.0		µg/L	1	1/6/2014 4:53:00 PM	R15914
Xylenes, Total	ND	1.5		µg/L	1	1/6/2014 4:53:00 PM	R15914
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	1/6/2014 4:53:00 PM	R15914
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	1/6/2014 4:53:00 PM	R15914
Surr: Dibromofluoromethane	104	70-130		%REC	1	1/6/2014 4:53:00 PM	R15914
Surr: Toluene-d8	94.5	70-130		%REC	1	1/6/2014 4:53:00 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-1_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 10:00:00 AM
Lab ID: 1401083-003
Matrix: AQUEOUS
Received Date: 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.0	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Toluene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Ethylbenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Methyl tert-butyl ether (MTBE)	1.3	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2,4-Trimethylbenzene	2.7	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Naphthalene	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1-Methylnaphthalene	7.6	4.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
2-Methylnaphthalene	ND	4.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Acetone	ND	10		µg/L	1	1/6/2014 5:21:46 PM	R15914
Bromobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Bromodichloromethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Bromoform	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Bromomethane	ND	3.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
2-Butanone	ND	10		µg/L	1	1/6/2014 5:21:46 PM	R15914
Carbon disulfide	ND	10		µg/L	1	1/6/2014 5:21:46 PM	R15914
Carbon Tetrachloride	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Chlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Chloroethane	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Chloroform	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Chloromethane	ND	3.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
2-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
4-Chlorotoluene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
cis-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Dibromochloromethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Dibromomethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1-Dichloroethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1-Dichloroethene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,3-Dichloropropane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
2,2-Dichloropropane	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW-1_131227
Project: CLC Joint Superfund Project
Collection Date: 12/27/2013 10:00:00 AM
Lab ID: 1401083-003 **Matrix:** AQUEOUS **Received Date:** 1/3/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Hexachlorobutadiene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
2-Hexanone	ND	10		µg/L	1	1/6/2014 5:21:46 PM	R15914
Isopropylbenzene	1.2	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
4-Isopropyltoluene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
4-Methyl-2-pentanone	ND	10		µg/L	1	1/6/2014 5:21:46 PM	R15914
Methylene Chloride	ND	3.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
n-Butylbenzene	ND	3.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
n-Propylbenzene	5.9	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
sec-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Styrene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
tert-Butylbenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
trans-1,2-DCE	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Trichlorofluoromethane	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Vinyl chloride	ND	1.0		µg/L	1	1/6/2014 5:21:46 PM	R15914
Xylenes, Total	ND	1.5		µg/L	1	1/6/2014 5:21:46 PM	R15914
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	1/6/2014 5:21:46 PM	R15914
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	1/6/2014 5:21:46 PM	R15914
Surr: Dibromofluoromethane	104	70-130		%REC	1	1/6/2014 5:21:46 PM	R15914
Surr: Toluene-d8	95.3	70-130		%REC	1	1/6/2014 5:21:46 PM	R15914

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**

09-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458886** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**

09-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458886** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	12		10.00		116	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **100ng lcs 3**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458888** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.3	70	130			
Toluene	18	1.0	20.00	0	91.0	82.2	124			
Chlorobenzene	17	1.0	20.00	0	83.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**

09-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs 3**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458888** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	24	1.0	20.00	0	120	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	87.3	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID **1401083-003a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1_131227**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458905** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	1.038	90.7	68.6	126			
Toluene	18	1.0	20.00	0	90.0	72.5	122			
Chlorobenzene	17	1.0	20.00	0	85.6	70	130			
1,1-Dichloroethene	22	1.0	20.00	0	109	79.1	139			
Trichloroethene (TCE)	17	1.0	20.00	0	83.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		109	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.6	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID **1401083-003a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MW-1_131227**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458906** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	1.038	90.2	68.6	126	0.577	20	
Toluene	17	1.0	20.00	0	87.1	72.5	122	3.29	20	
Chlorobenzene	16	1.0	20.00	0	81.6	70	130	4.78	20	
1,1-Dichloroethene	22	1.0	20.00	0	108	79.1	139	1.00	20	
Trichloroethene (TCE)	17	1.0	20.00	0	83.9	70	130	0.769	20	
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		106	70	130	0	0	
Surr: Toluene-d8	9.5		10.00		95.4	70	130	0	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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**
09-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **b8**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458925** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**

09-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b8**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458925** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.0		10.00		90.1	70	130			

Sample ID **100ng lcs 4**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458927** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.1	70	130			
Toluene	19	1.0	20.00	0	94.5	82.2	124			
Chlorobenzene	17	1.0	20.00	0	84.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401083**

09-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs 4**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15914**	RunNo: **15914**
Prep Date:	Analysis Date: **1/6/2014**	SeqNo: **458927** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	115	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	86.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.9		10.00		98.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1401083** RcptNo: **1**

Received by/date: dm 01/03/14

Logged By: **Ashley Gallegos** **1/3/2014 9:00:00 AM** AG

Completed By: **Ashley Gallegos** **1/3/2014 12:44:43 PM** AG

Reviewed By: IO 01/08/13

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. 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:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: lguerra@las-cruces.org

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC Joint Superfund Project

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.2

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1401083	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
~~1/13~~	~~1000~~	~~Ground H2O~~	~~CLCPP-131227~~	~~3-40ml Vial~~	~~HgCl2~~											~~X~~		
1/2/13	1305	Ground H2O	CLC26-131227	3-40ml Vial	HgCl2	-001										X		
1/2/13	1322	Ground H2O	CLCPP-131227	3-40ml Vial	HgCl2	-002										X		
1/2/13	1000	Ground H2O	MW1-131227	3-40ml Vial	HgCl2	-003										X		

Date: 1/2/14 Time: 1400 Relinquished by: Laura Montoya

Date: Time: Relinquished by:

Received by:

Received by:

Date: 01/03/14 Time: 0900

Date: Time:

Remarks: Send reports to lguerra at email above. Send invoice to Luis Guerra c/o CLC.

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.

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

January 22, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC-Joint Superfund OrderNo.: 1401230

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/8/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF4_140106
Project: CLC-Joint Superfund
Collection Date: 1/6/2014 1:34:00 PM
Lab ID: 1401230-001
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Toluene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Ethylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Naphthalene	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1-Methylnaphthalene	ND	4.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
2-Methylnaphthalene	ND	4.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Acetone	ND	10		µg/L	1	1/8/2014 8:55:38 PM	R15972
Bromobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Bromodichloromethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Bromoform	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Bromomethane	ND	3.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
2-Butanone	ND	10		µg/L	1	1/8/2014 8:55:38 PM	R15972
Carbon disulfide	ND	10		µg/L	1	1/8/2014 8:55:38 PM	R15972
Carbon Tetrachloride	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Chlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Chloroethane	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Chloroform	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Chloromethane	ND	3.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
2-Chlorotoluene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
4-Chlorotoluene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
cis-1,2-DCE	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Dibromochloromethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Dibromomethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1-Dichloroethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1-Dichloroethene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2-Dichloropropane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,3-Dichloropropane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
2,2-Dichloropropane	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MWSF4_140106
Project: CLC-Joint Superfund
Collection Date: 1/6/2014 1:34:00 PM
Lab ID: 1401230-001
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Hexachlorobutadiene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
2-Hexanone	ND	10		µg/L	1	1/8/2014 8:55:38 PM	R15972
Isopropylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
4-Isopropyltoluene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
4-Methyl-2-pentanone	ND	10		µg/L	1	1/8/2014 8:55:38 PM	R15972
Methylene Chloride	ND	3.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
n-Butylbenzene	ND	3.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
n-Propylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
sec-Butylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Styrene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
tert-Butylbenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
trans-1,2-DCE	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Trichlorofluoromethane	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Vinyl chloride	ND	1.0		µg/L	1	1/8/2014 8:55:38 PM	R15972
Xylenes, Total	ND	1.5		µg/L	1	1/8/2014 8:55:38 PM	R15972
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%REC	1	1/8/2014 8:55:38 PM	R15972
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	1/8/2014 8:55:38 PM	R15972
Surr: Dibromofluoromethane	105	70-130		%REC	1	1/8/2014 8:55:38 PM	R15972
Surr: Toluene-d8	95.6	70-130		%REC	1	1/8/2014 8:55:38 PM	R15972

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

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:26:00 AM
Lab ID: 1401230-002
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Toluene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Ethylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Naphthalene	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1-Methylnaphthalene	ND	4.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
2-Methylnaphthalene	ND	4.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Acetone	ND	10		µg/L	1	1/8/2014 11:47:56 PM	R15972
Bromobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Bromodichloromethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Bromoform	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Bromomethane	ND	3.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
2-Butanone	ND	10		µg/L	1	1/8/2014 11:47:56 PM	R15972
Carbon disulfide	ND	10		µg/L	1	1/8/2014 11:47:56 PM	R15972
Carbon Tetrachloride	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Chlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Chloroethane	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Chloroform	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Chloromethane	ND	3.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
2-Chlorotoluene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
4-Chlorotoluene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
cis-1,2-DCE	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Dibromochloromethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Dibromomethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1-Dichloroethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1-Dichloroethene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2-Dichloropropane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,3-Dichloropropane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
2,2-Dichloropropane	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:26:00 AM
Lab ID: 1401230-002
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Hexachlorobutadiene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
2-Hexanone	ND	10		µg/L	1	1/8/2014 11:47:56 PM	R15972
Isopropylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
4-Isopropyltoluene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
4-Methyl-2-pentanone	ND	10		µg/L	1	1/8/2014 11:47:56 PM	R15972
Methylene Chloride	ND	3.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
n-Butylbenzene	ND	3.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
n-Propylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
sec-Butylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Styrene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
tert-Butylbenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Tetrachloroethene (PCE)	2.5	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
trans-1,2-DCE	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Trichlorofluoromethane	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Vinyl chloride	ND	1.0		µg/L	1	1/8/2014 11:47:56 PM	R15972
Xylenes, Total	ND	1.5		µg/L	1	1/8/2014 11:47:56 PM	R15972
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	1/8/2014 11:47:56 PM	R15972
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	1/8/2014 11:47:56 PM	R15972
Surr: Dibromofluoromethane	106	70-130		%REC	1	1/8/2014 11:47:56 PM	R15972
Surr: Toluene-d8	94.1	70-130		%REC	1	1/8/2014 11:47:56 PM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:41:00 AM
Lab ID: 1401230-003
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Toluene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Ethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Naphthalene	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
2-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Acetone	ND	10		µg/L	1	1/9/2014 12:16:36 AM	R15972
Bromobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Bromodichloromethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Bromoform	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Bromomethane	ND	3.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
2-Butanone	ND	10		µg/L	1	1/9/2014 12:16:36 AM	R15972
Carbon disulfide	ND	10		µg/L	1	1/9/2014 12:16:36 AM	R15972
Carbon Tetrachloride	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Chlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Chloroethane	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Chloroform	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Chloromethane	ND	3.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
2-Chlorotoluene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
4-Chlorotoluene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
cis-1,2-DCE	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Dibromochloromethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Dibromomethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1-Dichloroethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1-Dichloroethene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2-Dichloropropane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,3-Dichloropropane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
2,2-Dichloropropane	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:41:00 AM
Lab ID: 1401230-003
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Hexachlorobutadiene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
2-Hexanone	ND	10		µg/L	1	1/9/2014 12:16:36 AM	R15972
Isopropylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
4-Isopropyltoluene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
4-Methyl-2-pentanone	ND	10		µg/L	1	1/9/2014 12:16:36 AM	R15972
Methylene Chloride	ND	3.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
n-Butylbenzene	ND	3.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
n-Propylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
sec-Butylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Styrene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
tert-Butylbenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Tetrachloroethene (PCE)	8.8	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
trans-1,2-DCE	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Trichlorofluoromethane	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Vinyl chloride	ND	1.0		µg/L	1	1/9/2014 12:16:36 AM	R15972
Xylenes, Total	ND	1.5		µg/L	1	1/9/2014 12:16:36 AM	R15972
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%REC	1	1/9/2014 12:16:36 AM	R15972
Surr: 4-Bromofluorobenzene	114	70-130		%REC	1	1/9/2014 12:16:36 AM	R15972
Surr: Dibromofluoromethane	104	70-130		%REC	1	1/9/2014 12:16:36 AM	R15972
Surr: Toluene-d8	89.2	70-130		%REC	1	1/9/2014 12:16:36 AM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140107 Dupe
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:42:00 AM
Lab ID: 1401230-004
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Toluene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Ethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Naphthalene	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
2-Methylnaphthalene	ND	4.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Acetone	ND	10		µg/L	1	1/9/2014 12:45:19 AM	R15972
Bromobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Bromodichloromethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Bromoform	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Bromomethane	ND	3.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
2-Butanone	ND	10		µg/L	1	1/9/2014 12:45:19 AM	R15972
Carbon disulfide	ND	10		µg/L	1	1/9/2014 12:45:19 AM	R15972
Carbon Tetrachloride	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Chlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Chloroethane	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Chloroform	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Chloromethane	ND	3.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
2-Chlorotoluene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
4-Chlorotoluene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
cis-1,2-DCE	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Dibromochloromethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Dibromomethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1-Dichloroethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1-Dichloroethene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2-Dichloropropane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,3-Dichloropropane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
2,2-Dichloropropane	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140107 Dupe
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:42:00 AM
Lab ID: 1401230-004
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Hexachlorobutadiene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
2-Hexanone	ND	10		µg/L	1	1/9/2014 12:45:19 AM	R15972
Isopropylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
4-Isopropyltoluene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
4-Methyl-2-pentanone	ND	10		µg/L	1	1/9/2014 12:45:19 AM	R15972
Methylene Chloride	ND	3.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
n-Butylbenzene	ND	3.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
n-Propylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
sec-Butylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Styrene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
tert-Butylbenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Tetrachloroethene (PCE)	9.3	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
trans-1,2-DCE	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Trichlorofluoromethane	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Vinyl chloride	ND	1.0		µg/L	1	1/9/2014 12:45:19 AM	R15972
Xylenes, Total	ND	1.5		µg/L	1	1/9/2014 12:45:19 AM	R15972
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	1	1/9/2014 12:45:19 AM	R15972
Surr: 4-Bromofluorobenzene	115	70-130		%REC	1	1/9/2014 12:45:19 AM	R15972
Surr: Dibromofluoromethane	105	70-130		%REC	1	1/9/2014 12:45:19 AM	R15972
Surr: Toluene-d8	90.3	70-130		%REC	1	1/9/2014 12:45:19 AM	R15972

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:46:00 AM
Lab ID: 1401230-005
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.49	0.10		mg/L	1	1/8/2014 10:48:13 PM	R15978
Chloride	140	10		mg/L	20	1/8/2014 11:00:37 PM	R15978
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/8/2014 10:48:13 PM	R15978
Bromide	0.23	0.10		mg/L	1	1/8/2014 10:48:13 PM	R15978
Nitrogen, Nitrate (As N)	2.3	0.10		mg/L	1	1/8/2014 10:48:13 PM	R15978
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/8/2014 10:48:13 PM	R15978
Sulfate	180	10		mg/L	20	1/8/2014 11:00:37 PM	R15978
Nitrate+Nitrite as N	2.3	0.20		mg/L	1	1/8/2014 10:48:13 PM	R15978
EPA METHOD 200.7: METALS						Analyst: **JLF**	
Aluminum	ND	0.020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Barium	0.060	0.0020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Beryllium	ND	0.0020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Cadmium	ND	0.0020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Calcium	95	1.0		mg/L	1	1/13/2014 2:02:00 PM	R16027
Chromium	ND	0.0060		mg/L	1	1/13/2014 2:02:00 PM	R16027
Iron	ND	0.020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Magnesium	30	1.0		mg/L	1	1/13/2014 2:02:00 PM	R16027
Manganese	0.046	0.0020		mg/L	1	1/13/2014 2:02:00 PM	R16027
Nickel	ND	0.010		mg/L	1	1/13/2014 2:02:00 PM	R16027
Potassium	9.1	1.0		mg/L	1	1/13/2014 2:02:00 PM	R16027
Sodium	79	5.0		mg/L	5	1/13/2014 3:22:36 PM	R16027
Vanadium	ND	0.050		mg/L	1	1/13/2014 2:02:00 PM	R16027
Zinc	ND	0.010		mg/L	1	1/13/2014 2:02:00 PM	R16027
EPA 200.8: METALS						Analyst: **DBD**	
Antimony	ND	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Arsenic	0.0014	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Lead	ND	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Copper	0.0023	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Selenium	0.0033	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Thallium	ND	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
Uranium	0.024	0.0010		mg/L	1	1/13/2014 5:45:52 PM	R16042
EPA METHOD 245.1: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	1/10/2014 1:20:43 PM	11155

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140107
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:28:00 AM
Lab ID: 1401230-006
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.67	0.10		mg/L	1	1/8/2014 11:13:02 PM	R15978
Chloride	73	10		mg/L	20	1/8/2014 11:25:28 PM	R15978
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/8/2014 11:13:02 PM	R15978
Bromide	0.11	0.10		mg/L	1	1/8/2014 11:13:02 PM	R15978
Nitrogen, Nitrate (As N)	0.55	0.10		mg/L	1	1/8/2014 11:13:02 PM	R15978
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/8/2014 11:13:02 PM	R15978
Sulfate	86	10		mg/L	20	1/8/2014 11:25:28 PM	R15978
Nitrate+Nitrite as N	0.55	0.20		mg/L	1	1/8/2014 11:13:02 PM	R15978
EPA METHOD 200.7: METALS						Analyst: **JLF**	
Aluminum	ND	0.020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Barium	0.035	0.0020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Beryllium	ND	0.0020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Cadmium	ND	0.0020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Calcium	55	1.0		mg/L	1	1/13/2014 2:06:02 PM	R16027
Chromium	ND	0.0060		mg/L	1	1/13/2014 2:06:02 PM	R16027
Iron	ND	0.020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Magnesium	14	1.0		mg/L	1	1/13/2014 2:06:02 PM	R16027
Manganese	0.0024	0.0020		mg/L	1	1/13/2014 2:06:02 PM	R16027
Nickel	ND	0.010		mg/L	1	1/13/2014 2:06:02 PM	R16027
Potassium	6.8	1.0		mg/L	1	1/13/2014 2:06:02 PM	R16027
Sodium	61	5.0		mg/L	5	1/13/2014 3:24:39 PM	R16027
Vanadium	ND	0.050		mg/L	1	1/13/2014 2:06:02 PM	R16027
Zinc	ND	0.010		mg/L	1	1/13/2014 2:06:02 PM	R16027
EPA 200.8: METALS						Analyst: **DBD**	
Antimony	ND	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Arsenic	0.0015	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Lead	ND	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Copper	0.0020	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Selenium	0.0012	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Thallium	ND	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
Uranium	0.012	0.0010		mg/L	1	1/13/2014 5:50:23 PM	R16042
EPA METHOD 245.1: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	1/10/2014 1:22:31 PM	11155

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140107 Dupe
Project: CLC-Joint Superfund
Collection Date: 1/7/2014 11:30:00 AM
Lab ID: 1401230-007
Matrix: AQUEOUS
Received Date: 1/8/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.66	0.10		mg/L	1	1/8/2014 11:37:53 PM	R15978
Chloride	76	10		mg/L	20	1/8/2014 11:50:18 PM	R15978
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	1/8/2014 11:37:53 PM	R15978
Bromide	0.12	0.10		mg/L	1	1/8/2014 11:37:53 PM	R15978
Nitrogen, Nitrate (As N)	0.81	0.10		mg/L	1	1/8/2014 11:37:53 PM	R15978
Phosphorus, Orthophosphate (As P)	ND	0.50		mg/L	1	1/8/2014 11:37:53 PM	R15978
Sulfate	92	10		mg/L	20	1/8/2014 11:50:18 PM	R15978
Nitrate+Nitrite as N	0.81	0.20		mg/L	1	1/8/2014 11:37:53 PM	R15978
EPA METHOD 200.7: METALS						Analyst: **JLF**	
Aluminum	ND	0.020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Barium	0.034	0.0020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Beryllium	ND	0.0020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Cadmium	ND	0.0020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Calcium	56	1.0		mg/L	1	1/13/2014 2:09:53 PM	R16027
Chromium	ND	0.0060		mg/L	1	1/13/2014 2:09:53 PM	R16027
Iron	ND	0.020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Magnesium	15	1.0		mg/L	1	1/13/2014 2:09:53 PM	R16027
Manganese	0.0023	0.0020		mg/L	1	1/13/2014 2:09:53 PM	R16027
Nickel	ND	0.010		mg/L	1	1/13/2014 2:09:53 PM	R16027
Potassium	6.8	1.0		mg/L	1	1/13/2014 2:09:53 PM	R16027
Sodium	61	5.0		mg/L	5	1/13/2014 3:26:42 PM	R16027
Vanadium	ND	0.050		mg/L	1	1/13/2014 2:09:53 PM	R16027
Zinc	ND	0.010		mg/L	1	1/13/2014 2:09:53 PM	R16027
EPA 200.8: METALS						Analyst: **DBD**	
Antimony	ND	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Arsenic	0.0015	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Lead	ND	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Copper	0.0020	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Selenium	0.0012	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Thallium	ND	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
Uranium	0.013	0.0010		mg/L	1	1/13/2014 5:54:53 PM	R16042
EPA METHOD 245.1: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	1/10/2014 1:24:20 PM	11155

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Hall Environmental
Project: 1401230
Lab ID: H14010140-001
Client Sample ID: 1401230-005C CLC27_140107

Report Date: 01/21/14
Collection Date: 01/07/14 11:46
DateReceived: 01/09/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - SPECIATED, TOTAL							
Arsenic-III	ND	ug/L		5		E1632AM	01/21/14 13:00 / sbk
Arsenic-V	ND	ug/L	D	10		E1632AM	01/21/14 13:00 / sbk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Hall Environmental
Project: 1401230
Lab ID: H14010140-002
Client Sample ID: 1401230-006C CLC18_140107

Report Date: 01/21/14
Collection Date: 01/07/14 11:28
DateReceived: 01/09/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - SPECIATED, TOTAL							
Arsenic-III	ND	ug/L		5		E1632AM	01/21/14 13:08 / sbk
Arsenic-V	ND	ug/L	D	10		E1632AM	01/21/14 13:08 / sbk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: Hall Environmental
Project: 1401230
Lab ID: H14010140-003
Client Sample ID: 1401230-007C CLC18_140107 Dupe

Report Date: 01/21/14
Collection Date: 01/07/14 11:30
DateReceived: 01/09/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - SPECIATED, TOTAL							
Arsenic-III	ND	ug/L		5		E1632AM	01/21/14 13:16 / sbk
Arsenic-V	ND	ug/L	D	10		E1632AM	01/21/14 13:16 / sbk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Helena, MT Branch

Client: Hall Environmental
Report Date: 01/21/14
Project: 1401230
Work Order: H14010140

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E1632AM							Analytical Run: ARSENIC SPECIATION_140121A			
Sample ID: AS-ICV 25ppb-1/20/20	2	Initial Calibration Verification Standard							01/21/14 11:11	
Arsenic-III		102	ug/L	5.0	407	87.6	114			S
Arsenic-V		96.1	ug/L	5.0	384	87	116			S
Sample ID: AS-ICV 25ppb-1/20/20	2	Initial Calibration Verification Standard							01/21/14 11:20	
Arsenic-III		27.0	ug/L	5.0	108	87.6	114			
Arsenic-V		23.4	ug/L	5.0	94	87	116			
Sample ID: AS-50.0-1/21/2014	2	Continuing Calibration Verification Standard							01/21/14 12:43	
Arsenic-III		46.5	ug/L	5.0	93	85	115			
Arsenic-V		47.2	ug/L	5.0	95	85	115			
Method: E1632AM									Batch: R94366	
Sample ID: AS-LFB 50ppb-1/20/20	2	Laboratory Fortified Blank				Run: ARSENIC SPECIATION_1401			01/21/14 11:47	
Arsenic-III		53.8	ug/L	5.0	108	55	146			
Arsenic-V		48.0	ug/L	5.0	96	55	146			
Sample ID: ICB	2	Method Blank				Run: ARSENIC SPECIATION_1401			01/21/14 11:55	
Arsenic-III		ND	ug/L	0.4						
Arsenic-V		ND	ug/L	1						
Sample ID: H14010033-003A MS	2	Sample Matrix Spike				Run: ARSENIC SPECIATION_1401			01/21/14 12:27	
Arsenic-III		54.3	ug/L	5.0	109	55	146			
Arsenic-V		62.5	ug/L	5.0	103	55	146			
Sample ID: H14010033-003A MSD	2	Sample Matrix Spike Duplicate				Run: ARSENIC SPECIATION_1401			01/21/14 12:35	
Arsenic-III		52.0	ug/L	5.0	104	55	146	4.3	20	
Arsenic-V		57.4	ug/L	5.0	93	55	146	8.5	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **R16027**	RunNo: **16027**
Prep Date:	Analysis Date: **1/13/2014**	SeqNo: **461786** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	0.020								
Barium	ND	0.0020								
Beryllium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.020								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Nickel	ND	0.010								
Potassium	ND	1.0								
Sodium	ND	1.0								
Vanadium	ND	0.050								
Zinc	ND	0.010								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **R16027**	RunNo: **16027**
Prep Date:	Analysis Date: **1/13/2014**	SeqNo: **461787** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.56	0.020	0.5000	0	113	85	115			
Barium	0.49	0.0020	0.5000	0	99.0	85	115			
Beryllium	0.50	0.0020	0.5000	0	100	85	115			
Cadmium	0.50	0.0020	0.5000	0	100	85	115			
Calcium	50	1.0	50.00	0	99.2	85	115			
Chromium	0.49	0.0060	0.5000	0	98.3	85	115			
Iron	0.51	0.020	0.5000	0	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Manganese	0.50	0.0020	0.5000	0	99.8	85	115			
Nickel	0.49	0.010	0.5000	0	97.1	85	115			
Potassium	49	1.0	50.00	0	97.8	85	115			
Sodium	49	1.0	50.00	0	98.5	85	115			
Vanadium	0.51	0.050	0.5000	0	101	85	115			
Zinc	0.52	0.010	0.5000	0	103	85	115			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID	**LCS**	SampType:	**LCS**	TestCode:	**EPA 200.8: Metals**					
Client ID:	**LCSW**	Batch ID:	**R16042**	RunNo:	**16042**					
Prep Date:		Analysis Date:	**1/13/2014**	SeqNo:	**462158**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	0.025	0.0010	0.02500	0	101	85	115			
Arsenic	0.026	0.0010	0.02500	0	105	85	115			
Lead	0.026	0.0010	0.02500	0	104	85	115			
Copper	0.026	0.0010	0.02500	0	102	85	115			
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Thallium	0.026	0.0010	0.02500	0	104	85	115			
Uranium	0.027	0.0010	0.02500	0	107	85	115			

Sample ID	**MB**	SampType:	**MBLK**	TestCode:	**EPA 200.8: Metals**					
Client ID:	**PBW**	Batch ID:	**R16042**	RunNo:	**16042**					
Prep Date:		Analysis Date:	**1/13/2014**	SeqNo:	**462160**	Units:	**mg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	0.0010								
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Copper	ND	0.0010								
Selenium	ND	0.0010								
Thallium	ND	0.0010								
Uranium	ND	0.0010								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID	**MB-11155**	SampType:	**MBLK**	TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**PBW**	Batch ID:	**11155**	RunNo:	**16014**				
Prep Date:	**1/9/2014**	Analysis Date:	**1/10/2014**	SeqNo:	**461258**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-11155**	SampType:	**LCS**	TestCode:	**EPA Method 245.1: Mercury**				
Client ID:	**LCSW**	Batch ID:	**11155**	RunNo:	**16014**				
Prep Date:	**1/9/2014**	Analysis Date:	**1/10/2014**	SeqNo:	**461259**	Units:	**mg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0049	0.00020	0.005000	0	98.9	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R15978**	RunNo: **15978**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460335** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R15978**	RunNo: **15978**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460336** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.5	90	110			
Chloride	4.6	0.50	5.000	0	91.3	90	110			
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	92.2	90	110			
Bromide	2.4	0.10	2.500	0	95.9	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.9	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	95.2	90	110			
Sulfate	9.4	0.50	10.00	0	94.1	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.5	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15978**	RunNo: **15978**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460345** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.4	0.10	2.400	0	101	90	110			
Chloride	12	0.50	12.00	0	102	90	110			
Nitrogen, Nitrite (As N)	4.9	0.10	4.800	0	103	90	110			
Bromide	12	0.10	12.00	0	102	90	110			
Nitrogen, Nitrate (As N)	7.8	0.10	7.200	0	108	90	110			
Phosphorus, Orthophosphate (As P	12	0.50	12.00	0	102	90	110			
Sulfate	31	0.50	30.00	0	103	90	110			
Nitrate+Nitrite as N	13	0.20	12.00	0	106	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **A4** SampType: **CCV_4** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R15978** RunNo: **15978**

Prep Date: Analysis Date: **1/8/2014** SeqNo: **460357** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	1.000	0	99.0	90	110			
Chloride	4.7	0.50	5.000	0	94.7	90	110			
Nitrogen, Nitrite (As N)	2.0	0.10	2.000	0	98.0	90	110			
Bromide	4.9	0.10	5.000	0	98.4	90	110			
Nitrogen, Nitrate (As N)	3.0	0.10	3.000	0	99.5	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.8	90	110			
Sulfate	12	0.50	12.50	0	96.4	90	110			
Nitrate+Nitrite as N	4.9	0.20	5.000	0	98.9	90	110			

Sample ID **A5** SampType: **CCV_5** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R15978** RunNo: **15978**

Prep Date: Analysis Date: **1/8/2014** SeqNo: **460369** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.10	1.600	0	99.8	90	110			
Chloride	7.9	0.50	8.000	0	98.8	90	110			
Nitrogen, Nitrite (As N)	3.2	0.10	3.200	0	101	90	110			
Bromide	8.0	0.10	8.000	0	101	90	110			
Nitrogen, Nitrate (As N)	5.0	0.10	4.800	0	104	90	110			
Phosphorus, Orthophosphate (As P	7.9	0.50	8.000	0	99.3	90	110			
Sulfate	20	0.50	20.00	0	99.9	90	110			
Nitrate+Nitrite as N	8.2	0.20	8.000	0	102	90	110			

Sample ID **A6** SampType: **CCV_6** TestCode: **EPA Method 300.0: Anions**

Client ID: **BatchQC** Batch ID: **R15978** RunNo: **15978**

Prep Date: Analysis Date: **1/9/2014** SeqNo: **460381** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.4	0.10	2.400	0	102	90	110			
Chloride	12	0.50	12.00	0	103	90	110			
Nitrogen, Nitrite (As N)	5.0	0.10	4.800	0	104	90	110			
Bromide	12	0.10	12.00	0	103	90	110			
Nitrogen, Nitrate (As N)	7.8	0.10	7.200	0	109	90	110			
Phosphorus, Orthophosphate (As P	12	0.50	12.00	0	103	90	110			
Sulfate	31	0.50	30.00	0	104	90	110			
Nitrate+Nitrite as N	13	0.20	12.00	0	107	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460191** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460191** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.1	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.5		10.00		95.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460193** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.7	70	130			
Toluene	17	1.0	20.00	0	86.8	82.2	124			
Chlorobenzene	17	1.0	20.00	0	82.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401230**

22-Jan-14

Client: City of Las Cruces

Project: CLC-Joint Superfund

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460193** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	116	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	86.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.1	70	130			
Surr: 4-Bromofluorobenzene	12		10.00		120	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	8.9		10.00		88.9	70	130			

Sample ID **1401230-001a ms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MWSF4_140106**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460200** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.2	68.6	126			
Toluene	17	1.0	20.00	0	87.1	72.5	122			
Chlorobenzene	16	1.0	20.00	0	79.0	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	122	79.1	139			
Trichloroethene (TCE)	16	1.0	20.00	0	81.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.1		10.00		91.1	70	130			

Sample ID **1401230-001a msd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **MWSF4_140106**	Batch ID: **R15972**	RunNo: **15972**
Prep Date:	Analysis Date: **1/8/2014**	SeqNo: **460201** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.2	68.6	126	0.0515	20	
Toluene	17	1.0	20.00	0	85.8	72.5	122	1.50	20	
Chlorobenzene	15	1.0	20.00	0	77.2	70	130	2.35	20	
1,1-Dichloroethene	22	1.0	20.00	0	110	79.1	139	10.8	20	
Trichloroethene (TCE)	16	1.0	20.00	0	82.2	70	130	1.54	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	11		10.00		114	70	130	0	0	
Surr: Dibromofluoromethane	11		10.00		110	70	130	0	0	
Surr: Toluene-d8	9.3		10.00		93.0	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1401230 | RcptNo: 1

Received by/date: LM 01/08/14

Logged By: **Michelle Garcia** 1/8/2014 9:45:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 1/8/2014 10:11:26 AM Michelle Garcia

Reviewed By: AT 01/08/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 9 (<2 or >12 unless noted)

Adjusted?

Checked by: MG

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☑ No ☐ NA ☐

Person Notified:	Luis Guerra	Date:	1/8/2014
By Whom:	Michelle Garcia	Via:	☐ eMail ☑ Phone ☐ Fax ☐ In Person
Regarding:	Analysis request for Anions and Metals		
Client Instructions:	See Quote		

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCell

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC Joint Superfund

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

1 of 2

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401230	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Nitrate (EPA 300.0)	Arsenic Speciation (A31148)	Metals & Cations, As, Fe, Mn		Air Bubbles (Y or N)
1/6/14	1334	Ground H2O	MW5F4-140106	3-40ml Vial	HgCl2	-001										X						
1/7/14	1126	Ground H2O	CLC18-140107	3-40ml Vial	HgCl2	-002										X						
1/7/14	1141	Ground H2O	CLC27-140107	3-40ml Vial	HgCl2	-003										X						
1/7/14	1142	Ground H2O	CLC27-140107 Dupe	3-40ml Vial	HgCl2	-004										X						
1/7/14	1146	Ground H2O	CLC27-140107	1-125ml Plastic	H2SO4	-005												X				
	1146	Ground H2O	CLC27-140107	1-500ml Pl	HCl	-005													X			
	1146	Ground H2O	CLC27-140107	1-500ml Pl	HNO3	-005														X		
1/7/14	1146	Ground H2O	CLC27-140107	1-500ml Pl	ICE	-005								X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/7/14	1500	Laura Montoya		01/08/14	0945
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send reports to Luis Guerra at email address above. Send invoice to Luis Guerra @ CLC.

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.

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: CLC Joint Superfund

Project #:

Project Manager: Luis Guerra lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401230	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Nitrate (EPA 300.0)	Arsenic Speciation (A3IMS)	Metals/Cations, As ε Li		Air Bubbles (Y or N)
1/7/14	11:28	Ground H2O	CLC18-140107	1-125ml	H_2SO_4	006												X				
1/7/14	11:28	Ground H2O	CLC18-140107	1-500ml	HCl	006													X			
1/7/14	11:28	Ground H2O	CLC18-140107	1-500ml	HNO_3	006														X		
1/7/14	11:28	Ground H2O	CLC18-140107	1-500ml	ICE	006								X								
1/7/14	1130	Ground H2O	CLC18-140107 Dupe	1-125ml	H_2SO_4	007												X				
1/7/14	1130	Ground H2O	CLC18-140107 Dupe	1-500ml	HCl	007													X			
1/7/14	1130	Ground H2O	CLC18-140107 Dupe	1-500ml	HNO_3	007														X		
1/7/14	1130	Ground H2O	CLC18-140107 Dupe	1-500ml	ICE	007								X								

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/7/14	1500	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	01/08/14	0945

Remarks: Send Reports to Luis Guerra at email address above. Send invoice to Luis Guerra @ C.L.C.

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 17, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project Monthly Monitoring OrderNo.: 1401316

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/9/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140108
Project: CLC Joint Superfund Project Monthly M
Collection Date: 1/8/2014 10:37:00 AM
Lab ID: 1401316-001 **Matrix:** AIR
Received Date: 1/9/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Toluene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Ethylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Naphthalene	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
1-Methylnaphthalene	ND	0.40		µg/L	1	1/9/2014 1:00:07 PM	R16000
2-Methylnaphthalene	ND	0.40		µg/L	1	1/9/2014 1:00:07 PM	R16000
Acetone	ND	1.0		µg/L	1	1/9/2014 1:00:07 PM	R16000
Bromobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Bromodichloromethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Bromoform	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Bromomethane	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
2-Butanone	ND	1.0		µg/L	1	1/9/2014 1:00:07 PM	R16000
Carbon disulfide	ND	1.0		µg/L	1	1/9/2014 1:00:07 PM	R16000
Carbon tetrachloride	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Chlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Chloroethane	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
Chloroform	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Chloromethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
2-Chlorotoluene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
4-Chlorotoluene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
cis-1,2-DCE	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
Dibromochloromethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Dibromomethane	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,3-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,4-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Dichlorodifluoromethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1-Dichloroethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1-Dichloroethene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,3-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
2,2-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140108
Project: CLC Joint Superfund Project Monthly M
Collection Date: 1/8/2014 10:37:00 AM
Lab ID: 1401316-001 **Matrix:** AIR
Received Date: 1/9/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Hexachlorobutadiene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
2-Hexanone	ND	1.0		µg/L	1	1/9/2014 1:00:07 PM	R16000
Isopropylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
4-Isopropyltoluene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
4-Methyl-2-pentanone	ND	1.0		µg/L	1	1/9/2014 1:00:07 PM	R16000
Methylene chloride	ND	0.30		µg/L	1	1/9/2014 1:00:07 PM	R16000
n-Butylbenzene	ND	0.30		µg/L	1	1/9/2014 1:00:07 PM	R16000
n-Propylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
sec-Butylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Styrene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
tert-Butylbenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
trans-1,2-DCE	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1,1-Trichloroethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,1,2-Trichloroethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Trichloroethene (TCE)	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Trichlorofluoromethane	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
1,2,3-Trichloropropane	ND	0.20		µg/L	1	1/9/2014 1:00:07 PM	R16000
Vinyl chloride	ND	0.10		µg/L	1	1/9/2014 1:00:07 PM	R16000
Xylenes, Total	ND	0.15		µg/L	1	1/9/2014 1:00:07 PM	R16000
Surr: Dibromofluoromethane	113	70-130		%REC	1	1/9/2014 1:00:07 PM	R16000
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	1/9/2014 1:00:07 PM	R16000
Surr: Toluene-d8	89.1	70-130		%REC	1	1/9/2014 1:00:07 PM	R16000
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	1	1/9/2014 1:00:07 PM	R16000

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140108
Project: CLC Joint Superfund Project Monthly M
Collection Date: 1/8/2014 10:31:00 AM
Lab ID: 1401316-002 **Matrix:** AIR
Received Date: 1/9/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Toluene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Ethylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Naphthalene	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
1-Methylnaphthalene	ND	0.40		µg/L	1	1/9/2014 2:03:41 PM	R16000
2-Methylnaphthalene	ND	0.40		µg/L	1	1/9/2014 2:03:41 PM	R16000
Acetone	ND	1.0		µg/L	1	1/9/2014 2:03:41 PM	R16000
Bromobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Bromodichloromethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Bromoform	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Bromomethane	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
2-Butanone	ND	1.0		µg/L	1	1/9/2014 2:03:41 PM	R16000
Carbon disulfide	ND	1.0		µg/L	1	1/9/2014 2:03:41 PM	R16000
Carbon tetrachloride	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Chlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Chloroethane	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
Chloroform	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Chloromethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
2-Chlorotoluene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
4-Chlorotoluene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
cis-1,2-DCE	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
Dibromochloromethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Dibromomethane	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,3-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,4-Dichlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Dichlorodifluoromethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1-Dichloroethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1-Dichloroethene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,3-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
2,2-Dichloropropane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140108
Project: CLC Joint Superfund Project Monthly M
Collection Date: 1/8/2014 10:31:00 AM
Lab ID: 1401316-002 **Matrix:** AIR
Received Date: 1/9/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Hexachlorobutadiene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
2-Hexanone	ND	1.0		µg/L	1	1/9/2014 2:03:41 PM	R16000
Isopropylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
4-Isopropyltoluene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
4-Methyl-2-pentanone	ND	1.0		µg/L	1	1/9/2014 2:03:41 PM	R16000
Methylene chloride	ND	0.30		µg/L	1	1/9/2014 2:03:41 PM	R16000
n-Butylbenzene	ND	0.30		µg/L	1	1/9/2014 2:03:41 PM	R16000
n-Propylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
sec-Butylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Styrene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
tert-Butylbenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
trans-1,2-DCE	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1,1-Trichloroethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,1,2-Trichloroethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Trichloroethene (TCE)	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Trichlorofluoromethane	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
1,2,3-Trichloropropane	ND	0.20		µg/L	1	1/9/2014 2:03:41 PM	R16000
Vinyl chloride	ND	0.10		µg/L	1	1/9/2014 2:03:41 PM	R16000
Xylenes, Total	ND	0.15		µg/L	1	1/9/2014 2:03:41 PM	R16000
Surr: Dibromofluoromethane	98.6	70-130		%REC	1	1/9/2014 2:03:41 PM	R16000
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%REC	1	1/9/2014 2:03:41 PM	R16000
Surr: Toluene-d8	92.8	70-130		%REC	1	1/9/2014 2:03:41 PM	R16000
Surr: 4-Bromofluorobenzene	91.1	70-130		%REC	1	1/9/2014 2:03:41 PM	R16000

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1401316 RcptNo: 1

Received by/date: SB 01/09/14

Logged By: **Lindsay Mangin** 1/9/2014 10:00:00 AM

Completed By: **Lindsay Mangin** 1/9/2014 10:23:34 AM

Reviewed By: 01/09/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: lguerra@las-cruces.org

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND PROJECT MONTHLY MONITORING

Project #:

Project Manager: Luis Guerra

Sampler: LAURA Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: N/A

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1401316	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
1/8/14	1037	Process AIR	AS1_140108	1 Liter Tedlar Bag	NONE	-001										X		
1/8/14	1031	Process AIR	AS2_140108	1 Liter Tedlar Bag	NONE	-002										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/8/14	1430	Laura Montoya		1/9/14	1000
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please email reports to lguerra@las-cruces.org
Send invoice to Luis Guerra c/o CLC

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 16, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project Monthly Process Water OrderNo.: 1401337

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/9/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 9:50:00 AM
Lab ID: 1401337-001
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Toluene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Naphthalene	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Acetone	ND	10		µg/L	1	1/14/2014 9:06:28 PM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Bromodichloromethane	1.5	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Bromoform	4.1	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Bromomethane	ND	3.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
2-Butanone	ND	10		µg/L	1	1/14/2014 9:06:28 PM	R16071
Carbon disulfide	ND	10		µg/L	1	1/14/2014 9:06:28 PM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Chloroethane	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Chloroform	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Chloromethane	ND	3.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Dibromochloromethane	3.4	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 9:50:00 AM
Lab ID: 1401337-001 **Matrix:** AQUEOUS **Received Date:** 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
2-Hexanone	ND	10		µg/L	1	1/14/2014 9:06:28 PM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/14/2014 9:06:28 PM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Styrene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/14/2014 9:06:28 PM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/14/2014 9:06:28 PM	R16071
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	1/14/2014 9:06:28 PM	R16071
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	1/14/2014 9:06:28 PM	R16071
Surr: Dibromofluoromethane	104	70-130		%REC	1	1/14/2014 9:06:28 PM	R16071
Surr: Toluene-d8	90.0	70-130		%REC	1	1/14/2014 9:06:28 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:00:00 AM
Lab ID: 1401337-002
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Toluene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Naphthalene	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Acetone	ND	10		µg/L	1	1/14/2014 9:38:11 PM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Bromoform	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Bromomethane	ND	3.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
2-Butanone	ND	10		µg/L	1	1/14/2014 9:38:11 PM	R16071
Carbon disulfide	ND	10		µg/L	1	1/14/2014 9:38:11 PM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Chloroethane	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Chloroform	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Chloromethane	ND	3.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:00:00 AM
Lab ID: 1401337-002
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
2-Hexanone	ND	10		µg/L	1	1/14/2014 9:38:11 PM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/14/2014 9:38:11 PM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Styrene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/14/2014 9:38:11 PM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/14/2014 9:38:11 PM	R16071
Surr: 1,2-Dichloroethane-d4	90.3	70-130		%REC	1	1/14/2014 9:38:11 PM	R16071
Surr: 4-Bromofluorobenzene	95.9	70-130		%REC	1	1/14/2014 9:38:11 PM	R16071
Surr: Dibromofluoromethane	99.5	70-130		%REC	1	1/14/2014 9:38:11 PM	R16071
Surr: Toluene-d8	89.5	70-130		%REC	1	1/14/2014 9:38:11 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140108 Dupe
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:01:00 AM
Lab ID: 1401337-003
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Toluene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Naphthalene	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Acetone	ND	10		µg/L	1	1/14/2014 10:09:59 PM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Bromoform	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Bromomethane	ND	3.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
2-Butanone	ND	10		µg/L	1	1/14/2014 10:09:59 PM	R16071
Carbon disulfide	ND	10		µg/L	1	1/14/2014 10:09:59 PM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Chloroethane	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Chloroform	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Chloromethane	ND	3.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140108 Dupe
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:01:00 AM
Lab ID: 1401337-003
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
2-Hexanone	ND	10		µg/L	1	1/14/2014 10:09:59 PM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/14/2014 10:09:59 PM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Styrene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/14/2014 10:09:59 PM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/14/2014 10:09:59 PM	R16071
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%REC	1	1/14/2014 10:09:59 PM	R16071
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	1/14/2014 10:09:59 PM	R16071
Surr: Dibromofluoromethane	100	70-130		%REC	1	1/14/2014 10:09:59 PM	R16071
Surr: Toluene-d8	90.7	70-130		%REC	1	1/14/2014 10:09:59 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:11:00 AM
Lab ID: 1401337-004
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Toluene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Naphthalene	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Acetone	ND	10		µg/L	1	1/14/2014 10:41:40 PM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Bromoform	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Bromomethane	ND	3.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
2-Butanone	ND	10		µg/L	1	1/14/2014 10:41:40 PM	R16071
Carbon disulfide	ND	10		µg/L	1	1/14/2014 10:41:40 PM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Chloroethane	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Chloroform	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Chloromethane	ND	3.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:11:00 AM
Lab ID: 1401337-004
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
2-Hexanone	ND	10		µg/L	1	1/14/2014 10:41:40 PM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/14/2014 10:41:40 PM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Styrene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/14/2014 10:41:40 PM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/14/2014 10:41:40 PM	R16071
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%REC	1	1/14/2014 10:41:40 PM	R16071
Surr: 4-Bromofluorobenzene	96.6	70-130		%REC	1	1/14/2014 10:41:40 PM	R16071
Surr: Dibromofluoromethane	97.0	70-130		%REC	1	1/14/2014 10:41:40 PM	R16071
Surr: Toluene-d8	85.8	70-130		%REC	1	1/14/2014 10:41:40 PM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:16:00 AM
Lab ID: 1401337-005 **Matrix:** AQUEOUS **Received Date:** 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Toluene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Naphthalene	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Acetone	ND	10		µg/L	1	1/15/2014 1:20:32 AM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Bromoform	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Bromomethane	ND	3.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
2-Butanone	ND	10		µg/L	1	1/15/2014 1:20:32 AM	R16071
Carbon disulfide	ND	10		µg/L	1	1/15/2014 1:20:32 AM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Chloroethane	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Chloroform	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Chloromethane	ND	3.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:16:00 AM
Lab ID: 1401337-005 **Matrix:** AQUEOUS **Received Date:** 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
2-Hexanone	ND	10		µg/L	1	1/15/2014 1:20:32 AM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/15/2014 1:20:32 AM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Styrene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Tetrachloroethene (PCE)	11	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/15/2014 1:20:32 AM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/15/2014 1:20:32 AM	R16071
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%REC	1	1/15/2014 1:20:32 AM	R16071
Surr: 4-Bromofluorobenzene	99.7	70-130		%REC	1	1/15/2014 1:20:32 AM	R16071
Surr: Dibromofluoromethane	98.8	70-130		%REC	1	1/15/2014 1:20:32 AM	R16071
Surr: Toluene-d8	85.8	70-130		%REC	1	1/15/2014 1:20:32 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:22:00 AM
Lab ID: 1401337-006
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Toluene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Naphthalene	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Acetone	ND	10		µg/L	1	1/15/2014 1:52:16 AM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Bromoform	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Bromomethane	ND	3.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
2-Butanone	ND	10		µg/L	1	1/15/2014 1:52:16 AM	R16071
Carbon disulfide	ND	10		µg/L	1	1/15/2014 1:52:16 AM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Chloroethane	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Chloroform	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Chloromethane	ND	3.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:22:00 AM
Lab ID: 1401337-006
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
2-Hexanone	ND	10		µg/L	1	1/15/2014 1:52:16 AM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/15/2014 1:52:16 AM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Styrene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Tetrachloroethene (PCE)	6.0	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/15/2014 1:52:16 AM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/15/2014 1:52:16 AM	R16071
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%REC	1	1/15/2014 1:52:16 AM	R16071
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	1/15/2014 1:52:16 AM	R16071
Surr: Dibromofluoromethane	96.5	70-130		%REC	1	1/15/2014 1:52:16 AM	R16071
Surr: Toluene-d8	87.2	70-130		%REC	1	1/15/2014 1:52:16 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:57:00 AM
Lab ID: 1401337-007
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Toluene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Ethylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Naphthalene	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
2-Methylnaphthalene	ND	4.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Acetone	ND	10		µg/L	1	1/15/2014 2:24:01 AM	R16071
Bromobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Bromodichloromethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Bromoform	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Bromomethane	ND	3.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
2-Butanone	ND	10		µg/L	1	1/15/2014 2:24:01 AM	R16071
Carbon disulfide	ND	10		µg/L	1	1/15/2014 2:24:01 AM	R16071
Carbon Tetrachloride	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Chlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Chloroethane	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Chloroform	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Chloromethane	ND	3.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
2-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
4-Chlorotoluene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
cis-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Dibromochloromethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Dibromomethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1-Dichloroethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1-Dichloroethene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,3-Dichloropropane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
2,2-Dichloropropane	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140108
Project: CLC Joint Superfund Project Monthly Pr
Collection Date: 1/8/2014 10:57:00 AM
Lab ID: 1401337-007
Matrix: AQUEOUS
Received Date: 1/9/2014 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Hexachlorobutadiene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
2-Hexanone	ND	10		µg/L	1	1/15/2014 2:24:01 AM	R16071
Isopropylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
4-Isopropyltoluene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
4-Methyl-2-pentanone	ND	10		µg/L	1	1/15/2014 2:24:01 AM	R16071
Methylene Chloride	ND	3.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
n-Butylbenzene	ND	3.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
n-Propylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
sec-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Styrene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
tert-Butylbenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Tetrachloroethene (PCE)	11	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
trans-1,2-DCE	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Trichlorofluoromethane	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Vinyl chloride	ND	1.0		µg/L	1	1/15/2014 2:24:01 AM	R16071
Xylenes, Total	ND	1.5		µg/L	1	1/15/2014 2:24:01 AM	R16071
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%REC	1	1/15/2014 2:24:01 AM	R16071
Surr: 4-Bromofluorobenzene	98.0	70-130		%REC	1	1/15/2014 2:24:01 AM	R16071
Surr: Dibromofluoromethane	96.7	70-130		%REC	1	1/15/2014 2:24:01 AM	R16071
Surr: Toluene-d8	85.5	70-130		%REC	1	1/15/2014 2:24:01 AM	R16071

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401337**

16-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project Monthly Process

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462829** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401337**

16-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project Monthly Process

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462829** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	8.8		10.00		87.7	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462831** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	20	1.0	20.00	0	101	82.2	124			
Chlorobenzene	18	1.0	20.00	0	92.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401337**

16-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project Monthly Process

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462831** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	25	1.0	20.00	0	124	83.5	155			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.3	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.5	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.0	70	130			
Surr: Toluene-d8	8.8		10.00		88.0	70	130			

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462862** 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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401337**

16-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project Monthly Process

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462862** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401337**

16-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project Monthly Process

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/14/2014**	SeqNo: **462862** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		99.9	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.4	70	130			
Surr: Toluene-d8	8.8		10.00		88.0	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16071**	RunNo: **16071**
Prep Date:	Analysis Date: **1/15/2014**	SeqNo: **462865** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	18	1.0	20.00	0	92.1	82.2	124			
Chlorobenzene	17	1.0	20.00	0	86.5	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	120	83.5	155			
Trichloroethene (TCE)	18	1.0	20.00	0	90.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.1	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.7	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.0	70	130			
Surr: Toluene-d8	8.7		10.00		87.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1401337** RcptNo: **1**

Received by/date: MG 01/09/14

Logged By: **Michelle Garcia** 1/9/2014 9:50:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 1/9/2014 1:12:50 PM Michelle Garcia

Reviewed By: MG 01/09/14

Chain of Custody

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?	UPS		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: lguerra@las-cruces.org

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND PROJECT MONTHLY PROCESS WATER

Project #:

Project Manager: LUIS GUERRA

Sampler: LAURA Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0°

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1401337	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B ~~(VOA)~~ VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
8/14	950	Drink H2O	ES1_140108	3-40ml Vial	HgCl2	-001										X		
8/14	1000	Drink H2O	C2_140108	3-40ml Vial	HgCl2	-002										X		
8/14	1001	Drink H2O	C2_140108 Dupe	3-40ml Vial	HgCl2	-003										X		
8/14	1011	Drink H2O	C1_140108	3-40ml Vial	HgCl2	-004										X		
8/14	1016	Drink H2O	IS1_140108	3-40ml Vial	HgCl2	-005										X		
8/14	1022	Drink H2O	CLC18_140108	3-40ml Vial	HgCl2	-006										X		
8/14	1057	Drink H2O	CLC27_140108	3-40ml Vial	HgCl2	-007										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/14	1430	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	Date	Time
				08/09/14	0950

Remarks: Please email reports to lguerra@las-cruces.org
Send invoice to Luis Guerra C/O C

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 27, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1401730

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 16 sample(s) on 1/17/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW5_140109
Project: CLC Joint Superfund Project
Collection Date: 1/9/2014 1:48:00 PM
Lab ID: 1401730-001 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Toluene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 3:50:57 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 3:50:57 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 3:50:57 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: MW5_140109
Project: CLC Joint Superfund Project
Collection Date: 1/9/2014 1:48:00 PM
Lab ID: 1401730-001 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 3:50:57 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 3:50:57 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 3:50:57 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 3:50:57 PM	R16186
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%REC	1	1/20/2014 3:50:57 PM	R16186
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	1/20/2014 3:50:57 PM	R16186
Surr: Dibromofluoromethane	102	70-130		%REC	1	1/20/2014 3:50:57 PM	R16186
Surr: Toluene-d8	97.2	70-130		%REC	1	1/20/2014 3:50:57 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-03_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:12:00 PM
Lab ID: 1401730-002 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Toluene	6.0	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 5:58:26 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 5:58:26 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 5:58:26 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-03_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:12:00 PM
Lab ID: 1401730-002 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 5:58:26 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 5:58:26 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 5:58:26 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 5:58:26 PM	R16186
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%REC	1	1/20/2014 5:58:26 PM	R16186
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	1	1/20/2014 5:58:26 PM	R16186
Surr: Dibromofluoromethane	93.9	70-130		%REC	1	1/20/2014 5:58:26 PM	R16186
Surr: Toluene-d8	89.1	70-130		%REC	1	1/20/2014 5:58:26 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-04_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:13:00 PM
Lab ID: 1401730-003 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Toluene	5.6	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 6:30:15 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 6:30:15 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 6:30:15 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-04_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:13:00 PM
Lab ID: 1401730-003 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 6:30:15 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 6:30:15 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 6:30:15 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 6:30:15 PM	R16186
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%REC	1	1/20/2014 6:30:15 PM	R16186
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	1/20/2014 6:30:15 PM	R16186
Surr: Dibromofluoromethane	94.5	70-130		%REC	1	1/20/2014 6:30:15 PM	R16186
Surr: Toluene-d8	91.3	70-130		%REC	1	1/20/2014 6:30:15 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-05_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:14:00 PM
Lab ID: 1401730-004 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Toluene	6.4	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 7:02:04 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 7:02:04 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 7:02:04 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-05_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 12:14:00 PM
Lab ID: 1401730-004 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 7:02:04 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 7:02:04 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 7:02:04 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 7:02:04 PM	R16186
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%REC	1	1/20/2014 7:02:04 PM	R16186
Surr: 4-Bromofluorobenzene	96.8	70-130		%REC	1	1/20/2014 7:02:04 PM	R16186
Surr: Dibromofluoromethane	103	70-130		%REC	1	1/20/2014 7:02:04 PM	R16186
Surr: Toluene-d8	91.8	70-130		%REC	1	1/20/2014 7:02:04 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-06_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 1:10:00 PM
Lab ID: 1401730-005 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Toluene	5.8	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 7:33:58 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 7:33:58 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 7:33:58 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186

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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-06_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 1:10:00 PM
Lab ID: 1401730-005 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 7:33:58 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 7:33:58 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 7:33:58 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 7:33:58 PM	R16186
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%REC	1	1/20/2014 7:33:58 PM	R16186
Surr: 4-Bromofluorobenzene	92.8	70-130		%REC	1	1/20/2014 7:33:58 PM	R16186
Surr: Dibromofluoromethane	102	70-130		%REC	1	1/20/2014 7:33:58 PM	R16186
Surr: Toluene-d8	86.8	70-130		%REC	1	1/20/2014 7:33:58 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-07_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 1:12:00 PM
Lab ID: 1401730-006 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	2.7	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Toluene	11	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Methyl tert-butyl ether (MTBE)	1.8	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Acetone	47	10		µg/L	1	1/20/2014 8:05:50 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
2-Butanone	21	10		µg/L	1	1/20/2014 8:05:50 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 8:05:50 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW08-07_140110
Project: CLC Joint Superfund Project
Collection Date: 1/10/2014 1:12:00 PM
Lab ID: 1401730-006 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 8:05:50 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 8:05:50 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 8:05:50 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 8:05:50 PM	R16186
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	1/20/2014 8:05:50 PM	R16186
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	1/20/2014 8:05:50 PM	R16186
Surr: Dibromofluoromethane	98.3	70-130		%REC	1	1/20/2014 8:05:50 PM	R16186
Surr: Toluene-d8	84.7	70-130		%REC	1	1/20/2014 8:05:50 PM	R16186

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-01_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:13:00 AM
Lab ID: 1401730-007 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Toluene	1.5	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 8:37:29 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 8:37:29 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 8:37:29 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-01_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:13:00 AM
Lab ID: 1401730-007 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 8:37:29 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 8:37:29 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Tetrachloroethene (PCE)	26	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 8:37:29 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 8:37:29 PM	R16186
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	1/20/2014 8:37:29 PM	R16186
Surr: 4-Bromofluorobenzene	91.9	70-130		%REC	1	1/20/2014 8:37:29 PM	R16186
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/20/2014 8:37:29 PM	R16186
Surr: Toluene-d8	84.4	70-130		%REC	1	1/20/2014 8:37:29 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-02_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:14:00 AM
Lab ID: 1401730-008
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1.5	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Toluene	7.2	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 9:09:22 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 9:09:22 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 9:09:22 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-02_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:14:00 AM
Lab ID: 1401730-008 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 9:09:22 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 9:09:22 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Tetrachloroethene (PCE)	11	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Trichloroethene (TCE)	1.9	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 9:09:22 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 9:09:22 PM	R16186
Surr: 1,2-Dichloroethane-d4	96.6	70-130		%REC	1	1/20/2014 9:09:22 PM	R16186
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	1	1/20/2014 9:09:22 PM	R16186
Surr: Dibromofluoromethane	96.9	70-130		%REC	1	1/20/2014 9:09:22 PM	R16186
Surr: Toluene-d8	81.5	70-130		%REC	1	1/20/2014 9:09:22 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-02_140115 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:15:00 AM
Lab ID: 1401730-009
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1.5	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Toluene	8.0	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Ethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Naphthalene	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
2-Methylnaphthalene	ND	4.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Acetone	ND	10		µg/L	1	1/20/2014 9:41:12 PM	R16186
Bromobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Bromodichloromethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Bromoform	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Bromomethane	ND	3.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
2-Butanone	ND	10		µg/L	1	1/20/2014 9:41:12 PM	R16186
Carbon disulfide	ND	10		µg/L	1	1/20/2014 9:41:12 PM	R16186
Carbon Tetrachloride	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Chlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Chloroethane	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Chloroform	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Chloromethane	ND	3.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
2-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
4-Chlorotoluene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
cis-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Dibromochloromethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Dibromomethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1-Dichloroethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1-Dichloroethene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,3-Dichloropropane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
2,2-Dichloropropane	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-02_140115 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:15:00 AM
Lab ID: 1401730-009 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Hexachlorobutadiene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
2-Hexanone	ND	10		µg/L	1	1/20/2014 9:41:12 PM	R16186
Isopropylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
4-Isopropyltoluene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
4-Methyl-2-pentanone	ND	10		µg/L	1	1/20/2014 9:41:12 PM	R16186
Methylene Chloride	ND	3.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
n-Butylbenzene	ND	3.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
n-Propylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
sec-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Styrene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
tert-Butylbenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Tetrachloroethene (PCE)	11	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
trans-1,2-DCE	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Trichloroethene (TCE)	1.8	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Trichlorofluoromethane	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Vinyl chloride	ND	1.0		µg/L	1	1/20/2014 9:41:12 PM	R16186
Xylenes, Total	ND	1.5		µg/L	1	1/20/2014 9:41:12 PM	R16186
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	1/20/2014 9:41:12 PM	R16186
Surr: 4-Bromofluorobenzene	94.0	70-130		%REC	1	1/20/2014 9:41:12 PM	R16186
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	1/20/2014 9:41:12 PM	R16186
Surr: Toluene-d8	87.4	70-130		%REC	1	1/20/2014 9:41:12 PM	R16186

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-03_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:15:00 AM
Lab ID: 1401730-010 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Toluene	5.3	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Naphthalene	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Acetone	ND	10		µg/L	1	1/21/2014 9:16:58 PM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Bromoform	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Bromomethane	ND	3.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
2-Butanone	ND	10		µg/L	1	1/21/2014 9:16:58 PM	R16210
Carbon disulfide	ND	10		µg/L	1	1/21/2014 9:16:58 PM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Chloroethane	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Chloroform	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Chloromethane	ND	3.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-03_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:15:00 AM
Lab ID: 1401730-010 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
2-Hexanone	ND	10		µg/L	1	1/21/2014 9:16:58 PM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/21/2014 9:16:58 PM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Styrene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Tetrachloroethene (PCE)	25	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/21/2014 9:16:58 PM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/21/2014 9:16:58 PM	R16210
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%REC	1	1/21/2014 9:16:58 PM	R16210
Surr: 4-Bromofluorobenzene	93.3	70-130		%REC	1	1/21/2014 9:16:58 PM	R16210
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	1/21/2014 9:16:58 PM	R16210
Surr: Toluene-d8	86.5	70-130		%REC	1	1/21/2014 9:16:58 PM	R16210

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-03_140115 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:16:00 AM
Lab ID: 1401730-011
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Toluene	5.5	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Naphthalene	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Acetone	ND	10		µg/L	1	1/22/2014 6:25:34 PM	R16239
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Bromoform	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Bromomethane	ND	3.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
2-Butanone	ND	10		µg/L	1	1/22/2014 6:25:34 PM	R16239
Carbon disulfide	ND	10		µg/L	1	1/22/2014 6:25:34 PM	R16239
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Chloroethane	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Chloroform	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Chloromethane	ND	3.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239

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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-03_140115 (Dupe)
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:16:00 AM
Lab ID: 1401730-011 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
2-Hexanone	ND	10		µg/L	1	1/22/2014 6:25:34 PM	R16239
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 6:25:34 PM	R16239
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Styrene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Tetrachloroethene (PCE)	28	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 6:25:34 PM	R16239
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 6:25:34 PM	R16239
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	1/22/2014 6:25:34 PM	R16239
Surr: 4-Bromofluorobenzene	94.5	70-130		%REC	1	1/22/2014 6:25:34 PM	R16239
Surr: Dibromofluoromethane	103	70-130		%REC	1	1/22/2014 6:25:34 PM	R16239
Surr: Toluene-d8	93.2	70-130		%REC	1	1/22/2014 6:25:34 PM	R16239

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-04_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:32:00 AM
Lab ID: 1401730-012
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Toluene	8.6	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Naphthalene	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Acetone	14	10		µg/L	1	1/22/2014 12:59:36 AM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Bromoform	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Bromomethane	ND	3.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
2-Butanone	ND	10		µg/L	1	1/22/2014 12:59:36 AM	R16210
Carbon disulfide	ND	10		µg/L	1	1/22/2014 12:59:36 AM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Chloroethane	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Chloroform	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Chloromethane	ND	3.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-04_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 11:32:00 AM
Lab ID: 1401730-012
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
2-Hexanone	ND	10		µg/L	1	1/22/2014 12:59:36 AM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 12:59:36 AM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Styrene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Tetrachloroethene (PCE)	1.3	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 12:59:36 AM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 12:59:36 AM	R16210
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%REC	1	1/22/2014 12:59:36 AM	R16210
Surr: 4-Bromofluorobenzene	92.7	70-130		%REC	1	1/22/2014 12:59:36 AM	R16210
Surr: Dibromofluoromethane	102	70-130		%REC	1	1/22/2014 12:59:36 AM	R16210
Surr: Toluene-d8	88.5	70-130		%REC	1	1/22/2014 12:59:36 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-05_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:42:00 PM
Lab ID: 1401730-013
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Toluene	12	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Naphthalene	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Acetone	17	10		µg/L	1	1/22/2014 1:31:26 AM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Bromoform	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Bromomethane	ND	3.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
2-Butanone	ND	10		µg/L	1	1/22/2014 1:31:26 AM	R16210
Carbon disulfide	ND	10		µg/L	1	1/22/2014 1:31:26 AM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Chloroethane	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Chloroform	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Chloromethane	ND	3.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-05_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:42:00 PM
Lab ID: 1401730-013 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
2-Hexanone	ND	10		µg/L	1	1/22/2014 1:31:26 AM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 1:31:26 AM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Styrene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 1:31:26 AM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 1:31:26 AM	R16210
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%REC	1	1/22/2014 1:31:26 AM	R16210
Surr: 4-Bromofluorobenzene	94.2	70-130		%REC	1	1/22/2014 1:31:26 AM	R16210
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	1/22/2014 1:31:26 AM	R16210
Surr: Toluene-d8	83.3	70-130		%REC	1	1/22/2014 1:31:26 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-06_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:40:00 PM
Lab ID: 1401730-014
Matrix: AQUEOUS
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Toluene	9.4	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Naphthalene	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Acetone	ND	10		µg/L	1	1/22/2014 2:03:10 AM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Bromoform	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Bromomethane	ND	3.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
2-Butanone	ND	10		µg/L	1	1/22/2014 2:03:10 AM	R16210
Carbon disulfide	ND	10		µg/L	1	1/22/2014 2:03:10 AM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Chloroethane	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Chloroform	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Chloromethane	ND	3.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-06_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:40:00 PM
Lab ID: 1401730-014 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
2-Hexanone	ND	10		µg/L	1	1/22/2014 2:03:10 AM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 2:03:10 AM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Styrene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 2:03:10 AM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 2:03:10 AM	R16210
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%REC	1	1/22/2014 2:03:10 AM	R16210
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	1	1/22/2014 2:03:10 AM	R16210
Surr: Dibromofluoromethane	92.7	70-130		%REC	1	1/22/2014 2:03:10 AM	R16210
Surr: Toluene-d8	88.1	70-130		%REC	1	1/22/2014 2:03:10 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-07_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:39:00 PM
Lab ID: 1401730-015 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	1.4	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Toluene	13	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Naphthalene	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Acetone	ND	10		µg/L	1	1/22/2014 2:34:55 AM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Bromoform	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Bromomethane	ND	3.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
2-Butanone	ND	10		µg/L	1	1/22/2014 2:34:55 AM	R16210
Carbon disulfide	ND	10		µg/L	1	1/22/2014 2:34:55 AM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Chloroethane	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Chloroform	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Chloromethane	ND	3.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210

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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW10-07_140115
Project: CLC Joint Superfund Project
Collection Date: 1/15/2014 12:39:00 PM
Lab ID: 1401730-015 **Matrix:** AQUEOUS **Received Date:** 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
2-Hexanone	ND	10		µg/L	1	1/22/2014 2:34:55 AM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 2:34:55 AM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Styrene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 2:34:55 AM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 2:34:55 AM	R16210
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	1/22/2014 2:34:55 AM	R16210
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	1	1/22/2014 2:34:55 AM	R16210
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/22/2014 2:34:55 AM	R16210
Surr: Toluene-d8	88.3	70-130		%REC	1	1/22/2014 2:34:55 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Joint Superfund Project
Collection Date:
Lab ID: 1401730-016
Matrix: TRIP BLANK
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Toluene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Ethylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Naphthalene	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
2-Methylnaphthalene	ND	4.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Acetone	ND	10		µg/L	1	1/22/2014 4:42:11 AM	R16210
Bromobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Bromodichloromethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Bromoform	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Bromomethane	ND	3.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
2-Butanone	ND	10		µg/L	1	1/22/2014 4:42:11 AM	R16210
Carbon disulfide	ND	10		µg/L	1	1/22/2014 4:42:11 AM	R16210
Carbon Tetrachloride	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Chlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Chloroethane	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Chloroform	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Chloromethane	ND	3.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
2-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
4-Chlorotoluene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
cis-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Dibromochloromethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Dibromomethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1-Dichloroethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1-Dichloroethene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,3-Dichloropropane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
2,2-Dichloropropane	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Joint Superfund Project
Collection Date:
Lab ID: 1401730-016
Matrix: TRIP BLANK
Received Date: 1/17/2014 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Hexachlorobutadiene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
2-Hexanone	ND	10		µg/L	1	1/22/2014 4:42:11 AM	R16210
Isopropylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
4-Isopropyltoluene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
4-Methyl-2-pentanone	ND	10		µg/L	1	1/22/2014 4:42:11 AM	R16210
Methylene Chloride	ND	3.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
n-Butylbenzene	ND	3.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
n-Propylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
sec-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Styrene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
tert-Butylbenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
trans-1,2-DCE	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Trichlorofluoromethane	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Vinyl chloride	ND	1.0		µg/L	1	1/22/2014 4:42:11 AM	R16210
Xylenes, Total	ND	1.5		µg/L	1	1/22/2014 4:42:11 AM	R16210
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	1/22/2014 4:42:11 AM	R16210
Surr: 4-Bromofluorobenzene	98.2	70-130		%REC	1	1/22/2014 4:42:11 AM	R16210
Surr: Dibromofluoromethane	98.1	70-130		%REC	1	1/22/2014 4:42:11 AM	R16210
Surr: Toluene-d8	88.0	70-130		%REC	1	1/22/2014 4:42:11 AM	R16210

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16186**	RunNo: **16186**
Prep Date:	Analysis Date: **1/20/2014**	SeqNo: **466452** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16186**	RunNo: **16186**
Prep Date:	Analysis Date: **1/20/2014**	SeqNo: **466452** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.5	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.5	70	130			
Surr: Toluene-d8	8.6		10.00		85.7	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16186**	RunNo: **16186**
Prep Date:	Analysis Date: **1/20/2014**	SeqNo: **466454** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	70	130			
Toluene	20	1.0	20.00	0	99.6	82.2	124			
Chlorobenzene	19	1.0	20.00	0	95.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16186**	RunNo: **16186**
Prep Date:	Analysis Date: **1/20/2014**	SeqNo: **466454** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	83.5	155			
Trichloroethene (TCE)	18	1.0	20.00	0	92.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	8.5		10.00		85.2	70	130			
Surr: Toluene-d8	9.6		10.00		96.4	70	130			

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467235** 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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**
27-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**	
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467235**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467235** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	8.7		10.00		87.2	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467237** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	20	1.0	20.00	0	102	82.2	124			
Chlorobenzene	18	1.0	20.00	0	91.9	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	120	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	95.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	8.8		10.00		87.8	70	130			
Surr: Toluene-d8	9.0		10.00		90.3	70	130			

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467263** 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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**
27-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467263** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.4	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.6	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.0	70	130			
Surr: Toluene-d8	8.2		10.00		81.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16210**	RunNo: **16210**
Prep Date:	Analysis Date: **1/21/2014**	SeqNo: **467264** 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	18	1.0	20.00	0	91.6	82.2	124			
Chlorobenzene	18	1.0	20.00	0	87.9	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	117	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	93.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130			
Surr: 4-Bromofluorobenzene	8.9		10.00		89.5	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.4	70	130			
Surr: Toluene-d8	8.5		10.00		85.3	70	130			

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16239**	RunNo: **16239**
Prep Date:	Analysis Date: **1/22/2014**	SeqNo: **468184** 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								

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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**
27-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R16239**	RunNo: **16239**	
Prep Date:	Analysis Date: **1/22/2014**	SeqNo: **468184**	Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16239**	RunNo: **16239**
Prep Date:	Analysis Date: **1/22/2014**	SeqNo: **468184** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	8.8		10.00		88.4	70	130			

Sample ID **100nglcs/200ngacac**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16239**	RunNo: **16239**
Prep Date:	Analysis Date: **1/22/2014**	SeqNo: **468186** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	20	1.0	20.00	0	97.6	82.2	124			
Chlorobenzene	17	1.0	20.00	0	87.1	70	130			
1,1-Dichloroethene	25	1.0	20.00	0	124	83.5	155			
Trichloroethene (TCE)	20	1.0	20.00	0	98.4	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.0	70	130			
Surr: Dibromofluoromethane	8.6		10.00		85.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401730**

27-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID	**100nglcs/200ngacac**	SampType:	**LCS**		TestCode:	**EPA Method 8260B: VOLATILES**				
Client ID:	**LCSW**	Batch ID:	**R16239**		RunNo:	**16239**				
Prep Date:		Analysis Date:	**1/22/2014**		SeqNo:	**468186**	Units:	**µg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	9.5		10.00		95.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1401730 RcptNo: 1

Received by/date: AG 01/17/14

Logged By: **Lindsay Mangin** 1/17/2014 8:40:00 AM

Completed By: **Lindsay Mangin** 1/17/2014 12:41:54 PM

Reviewed By: MG 01/17/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC Joint Superfund Project

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

1 of 2

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401730	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
1/9/14	13:48	Ground H2O	MW5_140109	3-40ml Vial	HgCl2	-001										X						
1/10/14	12:12	Ground H2O	GWMW08-03_140110	3-40ml Vial	HgCl2	-002										X						
1/10/14	12:13	Ground H2O	GWMW08-04_140110	3-40ml Vial	HgCl2	-003										X						
1/10/14	12:14	Ground H2O	GWMW08-05_140110	3-40ml Vial	HgCl2	-004										X						
1/10/14	13:10	Ground H2O	GWMW08-06_140110	3-40ml Vial	HgCl2	-005										X						
1/10/14	13:12	Ground H2O	GWMW08-07_140110	3-40ml Vial	HgCl2	-006										X						
1/15/14	11:13	Ground H2O	GWMW10-01_140115	3-40ml Vial	HgCl2	-007										X						
1/15/14	11:14	Ground H2O	GWMW10-02_140115	3-40ml Vial	HgCl2	-008										X						
1/15/14	11:15	Ground H2O	GWMW10-02_140115 (Dupe)	3-40ml Vial	HgCl2	-009										X						
1/15/14	11:15	Ground H2O	GWMW10-03_140115	3-40ml Vial	HgCl2	-010										X						
1/15/14	11:16	Ground H2O	GWMW10-03_140115 (Dupe)	3-40ml Vial	HgCl2	-011										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/15/14	1500	Laura Montoya	Ashley Gallegos	01/17/14	0840
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send results ~~to~~ and Reports to lguerra@lascruces.org. Send invoice to Luis Guerra C/O C.L.C

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.

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☑ EDD (Type) Excell

☐ Standard ☐ Rush _____

Project Name: LLC JOINT SUPERFUND PROJECT

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

2 of

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401730	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)				Air Bubbles (Y or N)
~~1/15/14~~	~~1242~~	~~Ground H2O~~	~~GWMW10-04_140115~~	~~3-40ml Vial~~	~~HgCl2~~											~~X~~				~~Sem~~	
1/15/14	1132	Ground H2O	GWMW10-04_140115	3-40ml Vial	HgCl2	-017										X					
1/15/14	1242	Ground H2O	GWMW10-05_140115	3-40ml Vial	HgCl2	-013										X					
1/15/14	1240	Ground H2O	GWMW10-06_140115	3-40ml Vial	HgCl2	-014										X					
1/15/14	1239	Ground H2O	GWMW10-07_140115	3-40ml Vial	HgCl2	-015										X					
1/15/14	----	LAB H2O	HALL TRIP BLANK	2-40ml	HgCl2	-016										X					

Date	Time	Relinquished by	Received by	Date	Time
1/15/14	1500	Laura Montoya			
				01/17/14	0840

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.

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

January 29, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1401939

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 23 sample(s) on 1/23/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-01_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:30:00 AM
Lab ID: 1401939-001 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.3	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Toluene	5.2	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Acetone	13	10		µg/L	1	1/26/2014 3:16:37 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 3:16:37 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 3:16:37 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-01_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:30:00 AM
Lab ID: 1401939-001 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 3:16:37 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 3:16:37 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Tetrachloroethene (PCE)	1.3	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 3:16:37 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 3:16:37 PM	R16301
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%REC	1	1/26/2014 3:16:37 PM	R16301
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	1/26/2014 3:16:37 PM	R16301
Surr: Dibromofluoromethane	94.2	70-130		%REC	1	1/26/2014 3:16:37 PM	R16301
Surr: Toluene-d8	105	70-130		%REC	1	1/26/2014 3:16:37 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-02_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:18:00 PM
Lab ID: 1401939-002 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Toluene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Acetone	ND	10		µg/L	1	1/27/2014 11:23:51 AM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 11:23:51 AM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 11:23:51 AM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-02_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:18:00 PM
Lab ID: 1401939-002 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 11:23:51 AM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 11:23:51 AM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 11:23:51 AM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 11:23:51 AM	R16328
Surr: 1,2-Dichloroethane-d4	92.8	70-130		%REC	1	1/27/2014 11:23:51 AM	R16328
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	1/27/2014 11:23:51 AM	R16328
Surr: Dibromofluoromethane	105	70-130		%REC	1	1/27/2014 11:23:51 AM	R16328
Surr: Toluene-d8	103	70-130		%REC	1	1/27/2014 11:23:51 AM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-03_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:27:00 AM
Lab ID: 1401939-003
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.4	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Toluene	4.8	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 3:46:01 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 3:46:01 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 3:46:01 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-03_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:27:00 AM
Lab ID: 1401939-003 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 3:46:01 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 3:46:01 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Tetrachloroethene (PCE)	2.0	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 3:46:01 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 3:46:01 PM	R16301
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%REC	1	1/26/2014 3:46:01 PM	R16301
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	1/26/2014 3:46:01 PM	R16301
Surr: Dibromofluoromethane	90.8	70-130		%REC	1	1/26/2014 3:46:01 PM	R16301
Surr: Toluene-d8	102	70-130		%REC	1	1/26/2014 3:46:01 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-04_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:29:00 AM
Lab ID: 1401939-004 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.1	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Toluene	3.8	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 5:14:04 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 5:14:04 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 5:14:04 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-04_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:29:00 AM
Lab ID: 1401939-004 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 5:14:04 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 5:14:04 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 5:14:04 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 5:14:04 PM	R16301
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	1/26/2014 5:14:04 PM	R16301
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	1	1/26/2014 5:14:04 PM	R16301
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	1/26/2014 5:14:04 PM	R16301
Surr: Toluene-d8	103	70-130		%REC	1	1/26/2014 5:14:04 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-05_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:20:00 PM
Lab ID: 1401939-005 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Toluene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 5:43:18 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 5:43:18 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 5:43:18 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-05_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:20:00 PM
Lab ID: 1401939-005 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 5:43:18 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 5:43:18 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 5:43:18 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 5:43:18 PM	R16301
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	1	1/26/2014 5:43:18 PM	R16301
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	1/26/2014 5:43:18 PM	R16301
Surr: Dibromofluoromethane	112	70-130		%REC	1	1/26/2014 5:43:18 PM	R16301
Surr: Toluene-d8	102	70-130		%REC	1	1/26/2014 5:43:18 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-06_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:22:00 PM
Lab ID: 1401939-006 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.2	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Toluene	2.7	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 6:12:28 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 6:12:28 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 6:12:28 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-06_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:22:00 PM
Lab ID: 1401939-006 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 6:12:28 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 6:12:28 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Tetrachloroethene (PCE)	8.0	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 6:12:28 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 6:12:28 PM	R16301
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%REC	1	1/26/2014 6:12:28 PM	R16301
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	1/26/2014 6:12:28 PM	R16301
Surr: Dibromofluoromethane	96.6	70-130		%REC	1	1/26/2014 6:12:28 PM	R16301
Surr: Toluene-d8	101	70-130		%REC	1	1/26/2014 6:12:28 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-07_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:19:00 PM
Lab ID: 1401939-007
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.2	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Toluene	3.5	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 6:41:36 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 6:41:36 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 6:41:36 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-07_140116
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:19:00 PM
Lab ID: 1401939-007 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 6:41:36 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 6:41:36 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Tetrachloroethene (PCE)	2.3	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 6:41:36 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 6:41:36 PM	R16301
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	1	1/26/2014 6:41:36 PM	R16301
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	1/26/2014 6:41:36 PM	R16301
Surr: Dibromofluoromethane	97.2	70-130		%REC	1	1/26/2014 6:41:36 PM	R16301
Surr: Toluene-d8	102	70-130		%REC	1	1/26/2014 6:41:36 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-01_140116 (DUPE)
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:32:00 AM
Lab ID: 1401939-008 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.3	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Toluene	5.3	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Acetone	ND	10		µg/L	1	1/27/2014 11:52:47 AM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 11:52:47 AM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 11:52:47 AM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-01_140116 (DUPE)
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 10:32:00 AM
Lab ID: 1401939-008 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 11:52:47 AM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 11:52:47 AM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Tetrachloroethene (PCE)	1.3	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 11:52:47 AM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 11:52:47 AM	R16328
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%REC	1	1/27/2014 11:52:47 AM	R16328
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	1	1/27/2014 11:52:47 AM	R16328
Surr: Dibromofluoromethane	108	70-130		%REC	1	1/27/2014 11:52:47 AM	R16328
Surr: Toluene-d8	108	70-130		%REC	1	1/27/2014 11:52:47 AM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-06_140116 (DUPE)
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:23:00 PM
Lab ID: 1401939-009
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.2	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Toluene	2.9	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 7:10:43 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 7:10:43 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 7:10:43 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW01-06_140116 (DUPE)
Project: CLC Joint Superfund Project
Collection Date: 1/16/2014 12:23:00 PM
Lab ID: 1401939-009 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 7:10:43 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 7:10:43 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Tetrachloroethene (PCE)	8.2	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 7:10:43 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 7:10:43 PM	R16301
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	1/26/2014 7:10:43 PM	R16301
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	1/26/2014 7:10:43 PM	R16301
Surr: Dibromofluoromethane	104	70-130		%REC	1	1/26/2014 7:10:43 PM	R16301
Surr: Toluene-d8	107	70-130		%REC	1	1/26/2014 7:10:43 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-01_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:40:00 PM
Lab ID: 1401939-010
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Toluene	10	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Acetone	12	10		µg/L	1	1/26/2014 7:39:49 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
2-Butanone	14	10		µg/L	1	1/26/2014 7:39:49 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 7:39:49 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-01_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:40:00 PM
Lab ID: 1401939-010 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 7:39:49 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 7:39:49 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 7:39:49 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 7:39:49 PM	R16301
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	1/26/2014 7:39:49 PM	R16301
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	1/26/2014 7:39:49 PM	R16301
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/26/2014 7:39:49 PM	R16301
Surr: Toluene-d8	90.2	70-130		%REC	1	1/26/2014 7:39:49 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-02_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:41:00 PM
Lab ID: 1401939-011
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	2.2	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Toluene	23	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Acetone	23	10		µg/L	1	1/26/2014 8:08:50 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
2-Butanone	10	10		µg/L	1	1/26/2014 8:08:50 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 8:08:50 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-02_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:41:00 PM
Lab ID: 1401939-011 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 8:08:50 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 8:08:50 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 8:08:50 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 8:08:50 PM	R16301
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	1/26/2014 8:08:50 PM	R16301
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	1/26/2014 8:08:50 PM	R16301
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/26/2014 8:08:50 PM	R16301
Surr: Toluene-d8	99.8	70-130		%REC	1	1/26/2014 8:08:50 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-03_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:40:00 PM
Lab ID: 1401939-012
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.2	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Toluene	15	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 8:37:48 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
2-Butanone	79	10		µg/L	1	1/26/2014 8:37:48 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 8:37:48 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-03_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 12:40:00 PM
Lab ID: 1401939-012
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 8:37:48 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 8:37:48 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 8:37:48 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 8:37:48 PM	R16301
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%REC	1	1/26/2014 8:37:48 PM	R16301
Surr: 4-Bromofluorobenzene	98.1	70-130		%REC	1	1/26/2014 8:37:48 PM	R16301
Surr: Dibromofluoromethane	88.4	70-130		%REC	1	1/26/2014 8:37:48 PM	R16301
Surr: Toluene-d8	101	70-130		%REC	1	1/26/2014 8:37:48 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-04_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:36:00 PM
Lab ID: 1401939-013
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Toluene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Acetone	ND	10		µg/L	1	1/27/2014 12:21:47 PM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 12:21:47 PM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 12:21:47 PM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-04_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:36:00 PM
Lab ID: 1401939-013
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 12:21:47 PM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 12:21:47 PM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 12:21:47 PM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 12:21:47 PM	R16328
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	1/27/2014 12:21:47 PM	R16328
Surr: 4-Bromofluorobenzene	96.7	70-130		%REC	1	1/27/2014 12:21:47 PM	R16328
Surr: Dibromofluoromethane	79.1	70-130		%REC	1	1/27/2014 12:21:47 PM	R16328
Surr: Toluene-d8	103	70-130		%REC	1	1/27/2014 12:21:47 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-05_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:37:00 PM
Lab ID: 1401939-014
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Toluene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Acetone	ND	10		µg/L	1	1/27/2014 12:50:48 PM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 12:50:48 PM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 12:50:48 PM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-05_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:37:00 PM
Lab ID: 1401939-014
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 12:50:48 PM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 12:50:48 PM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 12:50:48 PM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 12:50:48 PM	R16328
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	1/27/2014 12:50:48 PM	R16328
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	1/27/2014 12:50:48 PM	R16328
Surr: Dibromofluoromethane	109	70-130		%REC	1	1/27/2014 12:50:48 PM	R16328
Surr: Toluene-d8	101	70-130		%REC	1	1/27/2014 12:50:48 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-06_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:35:00 PM
Lab ID: 1401939-015 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	2.0	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Toluene	21	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 9:06:44 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 9:06:44 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 9:06:44 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW03-06_140117
Project: CLC Joint Superfund Project
Collection Date: 1/17/2014 1:35:00 PM
Lab ID: 1401939-015 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 9:06:44 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 9:06:44 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 9:06:44 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 9:06:44 PM	R16301
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	1	1/26/2014 9:06:44 PM	R16301
Surr: 4-Bromofluorobenzene	94.3	70-130		%REC	1	1/26/2014 9:06:44 PM	R16301
Surr: Dibromofluoromethane	90.6	70-130		%REC	1	1/26/2014 9:06:44 PM	R16301
Surr: Toluene-d8	104	70-130		%REC	1	1/26/2014 9:06:44 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Joint Superfund Project
Collection Date:
Lab ID: 1401939-016
Matrix: TRIP BLANK
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Toluene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 9:35:40 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 9:35:40 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 9:35:40 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: CLC Joint Superfund Project
Collection Date:
Lab ID: 1401939-016
Matrix: TRIP BLANK
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 9:35:40 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 9:35:40 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 9:35:40 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 9:35:40 PM	R16301
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%REC	1	1/26/2014 9:35:40 PM	R16301
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	1/26/2014 9:35:40 PM	R16301
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/26/2014 9:35:40 PM	R16301
Surr: Toluene-d8	96.6	70-130		%REC	1	1/26/2014 9:35:40 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-01_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:31:00 AM
Lab ID: 1401939-017
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	1.6	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Toluene	26	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Methyl tert-butyl ether (MTBE)	3.7	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Acetone	18	10		µg/L	1	1/26/2014 10:04:33 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 10:04:33 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 10:04:33 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-01_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:31:00 AM
Lab ID: 1401939-017
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 10:04:33 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 10:04:33 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 10:04:33 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 10:04:33 PM	R16301
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%REC	1	1/26/2014 10:04:33 PM	R16301
Surr: 4-Bromofluorobenzene	105	70-130		%REC	1	1/26/2014 10:04:33 PM	R16301
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	1/26/2014 10:04:33 PM	R16301
Surr: Toluene-d8	100	70-130		%REC	1	1/26/2014 10:04:33 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-02_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:32:00 AM
Lab ID: 1401939-018
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	2.2	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Toluene	23	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Methyl tert-butyl ether (MTBE)	1.2	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 10:33:25 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 10:33:25 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 10:33:25 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-02_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:32:00 AM
Lab ID: 1401939-018
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 10:33:25 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 10:33:25 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 10:33:25 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 10:33:25 PM	R16301
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%REC	1	1/26/2014 10:33:25 PM	R16301
Surr: 4-Bromofluorobenzene	95.4	70-130		%REC	1	1/26/2014 10:33:25 PM	R16301
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/26/2014 10:33:25 PM	R16301
Surr: Toluene-d8	99.3	70-130		%REC	1	1/26/2014 10:33:25 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-03_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:34:00 AM
Lab ID: 1401939-019
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	3.9	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Toluene	40	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Naphthalene	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Acetone	ND	10		µg/L	1	1/26/2014 11:02:15 PM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Bromoform	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Bromomethane	ND	3.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
2-Butanone	ND	10		µg/L	1	1/26/2014 11:02:15 PM	R16301
Carbon disulfide	ND	10		µg/L	1	1/26/2014 11:02:15 PM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Chloroethane	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Chloroform	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Chloromethane	ND	3.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-03_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:34:00 AM
Lab ID: 1401939-019
Matrix: AQUEOUS
Received Date: 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
2-Hexanone	ND	10		µg/L	1	1/26/2014 11:02:15 PM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/26/2014 11:02:15 PM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Styrene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Tetrachloroethene (PCE)	1.0	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/26/2014 11:02:15 PM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/26/2014 11:02:15 PM	R16301
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%REC	1	1/26/2014 11:02:15 PM	R16301
Surr: 4-Bromofluorobenzene	92.7	70-130		%REC	1	1/26/2014 11:02:15 PM	R16301
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/26/2014 11:02:15 PM	R16301
Surr: Toluene-d8	101	70-130		%REC	1	1/26/2014 11:02:15 PM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-04_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:36:00 AM
Lab ID: 1401939-020 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	3.2	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Toluene	61	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Acetone	ND	10		µg/L	1	1/27/2014 1:19:48 PM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 1:19:48 PM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 1:19:48 PM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-04_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:36:00 AM
Lab ID: 1401939-020 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 1:19:48 PM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 1:19:48 PM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Tetrachloroethene (PCE)	7.9	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 1:19:48 PM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 1:19:48 PM	R16328
Surr: 1,2-Dichloroethane-d4	92.5	70-130		%REC	1	1/27/2014 1:19:48 PM	R16328
Surr: 4-Bromofluorobenzene	98.4	70-130		%REC	1	1/27/2014 1:19:48 PM	R16328
Surr: Dibromofluoromethane	101	70-130		%REC	1	1/27/2014 1:19:48 PM	R16328
Surr: Toluene-d8	95.4	70-130		%REC	1	1/27/2014 1:19:48 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-05_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:52:00 AM
Lab ID: 1401939-021 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	4.0	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Toluene	51	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Naphthalene	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Acetone	25	10		µg/L	1	1/27/2014 1:48:50 PM	R16328
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Bromoform	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Bromomethane	ND	3.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
2-Butanone	ND	10		µg/L	1	1/27/2014 1:48:50 PM	R16328
Carbon disulfide	ND	10		µg/L	1	1/27/2014 1:48:50 PM	R16328
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Chloroethane	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Chloroform	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Chloromethane	ND	3.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-05_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:52:00 AM
Lab ID: 1401939-021 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
2-Hexanone	ND	10		µg/L	1	1/27/2014 1:48:50 PM	R16328
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 1:48:50 PM	R16328
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Styrene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Tetrachloroethene (PCE)	1.5	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 1:48:50 PM	R16328
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 1:48:50 PM	R16328
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	1/27/2014 1:48:50 PM	R16328
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	1/27/2014 1:48:50 PM	R16328
Surr: Dibromofluoromethane	113	70-130		%REC	1	1/27/2014 1:48:50 PM	R16328
Surr: Toluene-d8	105	70-130		%REC	1	1/27/2014 1:48:50 PM	R16328

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-06_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:53:00 AM
Lab ID: 1401939-022 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	2.1	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Toluene	39	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Naphthalene	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Acetone	ND	10		µg/L	1	1/27/2014 2:23:52 AM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Bromoform	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Bromomethane	ND	3.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
2-Butanone	ND	10		µg/L	1	1/27/2014 2:23:52 AM	R16301
Carbon disulfide	ND	10		µg/L	1	1/27/2014 2:23:52 AM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Chloroethane	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Chloroform	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Chloromethane	ND	3.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-06_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:53:00 AM
Lab ID: 1401939-022 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
2-Hexanone	ND	10		µg/L	1	1/27/2014 2:23:52 AM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 2:23:52 AM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Styrene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 2:23:52 AM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 2:23:52 AM	R16301
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	1	1/27/2014 2:23:52 AM	R16301
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	1/27/2014 2:23:52 AM	R16301
Surr: Dibromofluoromethane	102	70-130		%REC	1	1/27/2014 2:23:52 AM	R16301
Surr: Toluene-d8	100	70-130		%REC	1	1/27/2014 2:23:52 AM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-07_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:54:00 AM
Lab ID: 1401939-023 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	2.2	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Toluene	51	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Ethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Naphthalene	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
2-Methylnaphthalene	ND	4.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Acetone	ND	10		µg/L	1	1/27/2014 2:52:35 AM	R16301
Bromobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Bromodichloromethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Bromoform	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Bromomethane	ND	3.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
2-Butanone	ND	10		µg/L	1	1/27/2014 2:52:35 AM	R16301
Carbon disulfide	ND	10		µg/L	1	1/27/2014 2:52:35 AM	R16301
Carbon Tetrachloride	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Chlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Chloroethane	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Chloroform	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Chloromethane	ND	3.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
2-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
4-Chlorotoluene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
cis-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Dibromochloromethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Dibromomethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1-Dichloroethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1-Dichloroethene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,3-Dichloropropane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
2,2-Dichloropropane	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW09-07_140121
Project: CLC Joint Superfund Project
Collection Date: 1/21/2014 11:54:00 AM
Lab ID: 1401939-023 **Matrix:** AQUEOUS **Received Date:** 1/23/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Hexachlorobutadiene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
2-Hexanone	ND	10		µg/L	1	1/27/2014 2:52:35 AM	R16301
Isopropylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
4-Isopropyltoluene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
4-Methyl-2-pentanone	ND	10		µg/L	1	1/27/2014 2:52:35 AM	R16301
Methylene Chloride	ND	3.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
n-Butylbenzene	ND	3.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
n-Propylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
sec-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Styrene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
tert-Butylbenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
trans-1,2-DCE	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Trichlorofluoromethane	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Vinyl chloride	ND	1.0		µg/L	1	1/27/2014 2:52:35 AM	R16301
Xylenes, Total	ND	1.5		µg/L	1	1/27/2014 2:52:35 AM	R16301
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%REC	1	1/27/2014 2:52:35 AM	R16301
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	1/27/2014 2:52:35 AM	R16301
Surr: Dibromofluoromethane	102	70-130		%REC	1	1/27/2014 2:52:35 AM	R16301
Surr: Toluene-d8	101	70-130		%REC	1	1/27/2014 2:52:35 AM	R16301

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469927** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469927** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	9.9		10.00		98.6	70	130			

Sample ID **100ng lcs 1**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469929** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	22	1.0	20.00	0	110	82.2	124			
Chlorobenzene	20	1.0	20.00	0	97.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs 1**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469929** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	117	83.5	155			
Trichloroethene (TCE)	18	1.0	20.00	0	91.5	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.1	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.5	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469956** 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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469956** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/26/2014**	SeqNo: **469956** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130			
Surr: Dibromofluoromethane	10		10.00		105	70	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID **100ng lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16301**	RunNo: **16301**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **469958** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	21	1.0	20.00	0	106	82.2	124			
Chlorobenzene	19	1.0	20.00	0	95.4	70	130			
1,1-Dichloroethene	26	1.0	20.00	0	132	83.5	155			
Trichloroethene (TCE)	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	12		10.00		119	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470633** 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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470633** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b1**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470633** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.7		10.00		97.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470635** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	97.6	82.2	124			
Chlorobenzene	20	1.0	20.00	0	98.4	70	130			
1,1-Dichloroethene	26	1.0	20.00	0	128	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	97.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.2	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			
Surr: Dibromofluoromethane	10		10.00		103	70	130			
Surr: Toluene-d8	9.2		10.00		91.7	70	130			

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470661** 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								

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 greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**
29-Jan-14

Client: City of Las Cruces
Project: CLC Joint Superfund Project

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470661** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **b4**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470661** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.5	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	11		10.00		106	70	130			

Sample ID **100ng lcs 2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16328**	RunNo: **16328**
Prep Date:	Analysis Date: **1/27/2014**	SeqNo: **470667** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	21	1.0	20.00	0	104	82.2	124			
Chlorobenzene	20	1.0	20.00	0	99.3	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	118	83.5	155			
Trichloroethene (TCE)	18	1.0	20.00	0	92.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401939**

29-Jan-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID	**100ng lcs 2**	SampType:	**LCS**	TestCode:	**EPA Method 8260B: VOLATILES**
Client ID:	**LCSW**	Batch ID:	**R16328**	RunNo:	**16328**
Prep Date:		Analysis Date:	**1/27/2014**	SeqNo:	**470667** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Toluene-d8	10		10.00		105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1401939 | RcptNo: 1

Received by/date:		01/23/14	
Logged By:	Lindsay Mangin	1/23/2014 9:00:00 AM	
Completed By:	Lindsay Mangin	1/23/2014 9:34:34 AM	
Reviewed By:		01/23/14	

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☑ EDD (Type) EXCEL

☐ Standard ☐ Rush

Project Name: CC Joint Superfund Project

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.4

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401939
1/6/14	10:30	Ground H2O	6WMW01-01_140116	3-40ml Vial	HgCl2	(240ml Vials) -001
			~~6WMW01-02_140116~~	~~3-40ml Vial~~		Sam
1/6/14	12:18	Ground H2O	6WMW01-02_140116	1-40ml Vial	HgCl2	-002
1/6/14	10:27	Ground H2O	6WMW01-03_140116	3-40ml Vial	HgCl2	-003
1/6/14	1029	Ground H2O	6WMW01-04_140116	3-40ml Vial	HgCl2	-004
1/6/14	1220	Ground H2O	6WMW01-05_140116	3-40ml	HgCl2	-005
1/6/14	1222	Ground H2O	6WMW01-06_140116	3-40ml	HgCl2	-006
1/6/14	1219	Ground H2O	6WMW01-07-140116	3-40ml	HgCl2	-007
1/6/14	1032	Ground H2O	6WMW01-01_140116 (DUPE)	1-40ml	HgCl2	-008
1/6/14	1223	Ground H2O	6WMW01-06_140116 (DUPE)	3-40ml	HgCl2	-009

Date	Time	Relinquished by	Received by	Date	Time
1/7/14	1530	Laura Montoya		1/13/14	0900
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send Report & Results to lguerra@las-cruces.org

Send invoice to luisguerra % CC

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOC~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
									X						
									X						
									X						
									X						
									X						
									X						
									X						
									X						
									X						

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.

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3604

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: CLL JOINT SUPERFUND

Project #:

Project Manager:

Sampler: LAURA MONTOYA

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401939	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
1/17/14	1240	Ground H2O	GWMW03-01_140117	3-40ml Vial	HgCl2	-010										X		
1/17/14	1241	Ground H2O	GWMW03-02_140117	3-40ml Vial	HgCl2	-011										X		
1/17/14	1240	Ground H2O	GWMW03-03_140117	3-40ml Vial	HgCl2	-012										X		
1/17/14	1336	Ground H2O	GWMW03-04_140117	1-40ml Vial	HgCl2	-013										X		
1/17/14	1337	Ground H2O	GWMW03-05_140117	1-40ml Vial	HgCl2	-014										X		
1/17/14	1335	Ground H2O	GWMW03-06_140117	3-40ml Vial	HgCl2	-015										X		
1/22/14	1500	Lab H2O	HALL TRIP BLANK	2-40ml Vial	HgCl2	-016										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/22/14	1530	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	01/23/14	0900

Remarks: Send Report & Results to lguerra@las-cruces.org

See previous page 1 of 3

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.

Chain of Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

3 of 3

Client: City of Las Cruces	☐ Standard ☐ Rush
Mailing Address: P.O. Box 20000 Las Cruces, NM 88004	Project Name: CLC JOINT SUPERFUND
Phone #: 575 528 3604	Project #:
email or Fax#: 575 528 3620	Project Manager:
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	
Accreditation ☐ NELAP ☐ Other	Sampler: Laura Montoya
☒ EDD (Type) EXCEL	On Ice: ☒ Yes ☐ No
	Sample Temperature: 2.4

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1401939	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
1/14	1131	Ground H2O	GWMW09-01_140121	3-40ml	HgCl2	-017										X						
	1132		GWMW09-02_140121	"	HgCl2	-018										X						
	1134		GWMW09-03_140121	"	HgCl2	-019										X						
	1136		GWMW09-04_140121	"	HgCl2	-020										X						
	1152		GWMW09-05_140121	"	HgCl2	-021										X						
	1153		GWMW09-06_140121	"	HgCl2	-022										X						
1/14	1154	Ground H2O	GWMW09-07_140121	"	HgCl2	-023										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/14	1530	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	Date	Time
				01/23/14	0900

Remarks: Please use the most clear vial of all sets as the preferred sample.

See Previous page 1 of 3

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 05, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Project OrderNo.: 1401A32

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/24/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-S_140123
Project: CLC Joint Superfund Project
Collection Date: 1/23/2014 12:57:00 PM
Lab ID: 1401A32-001
Matrix: AQUEOUS
Received Date: 1/24/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Toluene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Ethylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Naphthalene	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1-Methylnaphthalene	ND	4.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
2-Methylnaphthalene	ND	4.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Acetone	ND	10		µg/L	1	2/3/2014 6:05:49 PM	R16497
Bromobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Bromodichloromethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Bromoform	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Bromomethane	ND	3.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
2-Butanone	ND	10		µg/L	1	2/3/2014 6:05:49 PM	R16497
Carbon disulfide	ND	10		µg/L	1	2/3/2014 6:05:49 PM	R16497
Carbon Tetrachloride	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Chlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Chloroethane	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Chloroform	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Chloromethane	ND	3.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
2-Chlorotoluene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
4-Chlorotoluene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
cis-1,2-DCE	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Dibromochloromethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Dibromomethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1-Dichloroethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1-Dichloroethene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2-Dichloropropane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,3-Dichloropropane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
2,2-Dichloropropane	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-S_140123
Project: CLC Joint Superfund Project
Collection Date: 1/23/2014 12:57:00 PM
Lab ID: 1401A32-001 **Matrix:** AQUEOUS **Received Date:** 1/24/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Hexachlorobutadiene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
2-Hexanone	ND	10		µg/L	1	2/3/2014 6:05:49 PM	R16497
Isopropylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
4-Isopropyltoluene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
4-Methyl-2-pentanone	ND	10		µg/L	1	2/3/2014 6:05:49 PM	R16497
Methylene Chloride	ND	3.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
n-Butylbenzene	ND	3.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
n-Propylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
sec-Butylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Styrene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
tert-Butylbenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
trans-1,2-DCE	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Trichlorofluoromethane	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Vinyl chloride	ND	1.0		µg/L	1	2/3/2014 6:05:49 PM	R16497
Xylenes, Total	ND	1.5		µg/L	1	2/3/2014 6:05:49 PM	R16497
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	2/3/2014 6:05:49 PM	R16497
Surr: 4-Bromofluorobenzene	89.8	70-130		%REC	1	2/3/2014 6:05:49 PM	R16497
Surr: Dibromofluoromethane	95.0	70-130		%REC	1	2/3/2014 6:05:49 PM	R16497
Surr: Toluene-d8	97.3	70-130		%REC	1	2/3/2014 6:05:49 PM	R16497

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401A32**

05-Feb-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16497**	RunNo: **16497**
Prep Date:	Analysis Date: **2/3/2014**	SeqNo: **475115** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401A32**

05-Feb-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16497**	RunNo: **16497**
Prep Date:	Analysis Date: **2/3/2014**	SeqNo: **475115** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.1	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.4		10.00		93.5	70	130			

Sample ID **100ng lcs,200ngaca**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16497**	RunNo: **16497**
Prep Date:	Analysis Date: **2/3/2014**	SeqNo: **475117** 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	19	1.0	20.00	0	95.6	82.2	124			
Chlorobenzene	18	1.0	20.00	0	91.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1401A32**

05-Feb-14

Client: City of Las Cruces

Project: CLC Joint Superfund Project

Sample ID **100ng lcs,200ngaca** SampType: **LCS** TestCode: **EPA Method 8260B: VOLATILES**

Client ID: **LCSW** Batch ID: **R16497** RunNo: **16497**

Prep Date: Analysis Date: **2/3/2014** SeqNo: **475117** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	25	1.0	20.00	0	126	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	94.5	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		110	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.3	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.2	70	130			
Surr: Toluene-d8	9.5		10.00		95.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1401A32 RcptNo: 1

Received by/date: LM 01/24/14

Logged By: **Michelle Garcia** 1/24/2014 8:30:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 1/27/2014 10:41:59 AM Michelle Garcia

Reviewed By: IO 01/27/2014

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn Around Time:
☐ Standard ☐ Rush _____

Project Name: JSP Ground H2O Monitoring (LC Joint Superfund Project)

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) Voc	8270 (Semi-VOA)	Air Bubbles (Y or N)
1/23/14	1257	Ground H2O	GWMW11-S_140123	3-40ml	HgCl2	1401A32-1										X		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/23/14	1500	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	01/24/14	0830

Remarks: Send results and Reports to lguerra@las-cruces.org.
Send invoice to Luis Guerra % C.L

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.

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

February 26, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: JSP Ground H2O Monitoring CLC Joint Superfund Project OrderNo.: 1402684

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/19/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-I-140211
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/11/2014 12:48:00 PM
Lab ID: 1402684-001 **Matrix:** AQUEOUS **Received Date:** 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Toluene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Ethylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Naphthalene	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1-Methylnaphthalene	ND	4.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
2-Methylnaphthalene	ND	4.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Acetone	ND	10		µg/L	1	2/24/2014 1:36:18 PM	R16931
Bromobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Bromodichloromethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Bromoform	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Bromomethane	ND	3.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
2-Butanone	ND	10		µg/L	1	2/24/2014 1:36:18 PM	R16931
Carbon disulfide	ND	10		µg/L	1	2/24/2014 1:36:18 PM	R16931
Carbon Tetrachloride	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Chlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Chloroethane	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Chloroform	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Chloromethane	ND	3.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
2-Chlorotoluene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
4-Chlorotoluene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
cis-1,2-DCE	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Dibromochloromethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Dibromomethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1-Dichloroethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1-Dichloroethene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2-Dichloropropane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,3-Dichloropropane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
2,2-Dichloropropane	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-I-140211
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/11/2014 12:48:00 PM
Lab ID: 1402684-001
Matrix: AQUEOUS
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Hexachlorobutadiene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
2-Hexanone	ND	10		µg/L	1	2/24/2014 1:36:18 PM	R16931
Isopropylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
4-Isopropyltoluene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
4-Methyl-2-pentanone	ND	10		µg/L	1	2/24/2014 1:36:18 PM	R16931
Methylene Chloride	ND	3.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
n-Butylbenzene	ND	3.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
n-Propylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
sec-Butylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Styrene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
tert-Butylbenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
trans-1,2-DCE	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Trichlorofluoromethane	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Vinyl chloride	ND	1.0		µg/L	1	2/24/2014 1:36:18 PM	R16931
Xylenes, Total	ND	1.5		µg/L	1	2/24/2014 1:36:18 PM	R16931
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	1	2/24/2014 1:36:18 PM	R16931
Surr: 4-Bromofluorobenzene	92.5	70-130		%REC	1	2/24/2014 1:36:18 PM	R16931
Surr: Dibromofluoromethane	98.6	70-130		%REC	1	2/24/2014 1:36:18 PM	R16931
Surr: Toluene-d8	98.3	70-130		%REC	1	2/24/2014 1:36:18 PM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-D-140213
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/13/2014 12:36:00 PM
Lab ID: 1402684-002
Matrix: AQUEOUS
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Toluene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Ethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Naphthalene	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1-Methylnaphthalene	ND	4.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
2-Methylnaphthalene	ND	4.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Acetone	ND	10		µg/L	1	2/25/2014 5:24:14 AM	R16931
Bromobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Bromodichloromethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Bromoform	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Bromomethane	ND	3.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
2-Butanone	ND	10		µg/L	1	2/25/2014 5:24:14 AM	R16931
Carbon disulfide	ND	10		µg/L	1	2/25/2014 5:24:14 AM	R16931
Carbon Tetrachloride	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Chlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Chloroethane	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Chloroform	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Chloromethane	ND	3.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
2-Chlorotoluene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
4-Chlorotoluene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
cis-1,2-DCE	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Dibromochloromethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Dibromomethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1-Dichloroethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1-Dichloroethene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2-Dichloropropane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,3-Dichloropropane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
2,2-Dichloropropane	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW11-D-140213
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/13/2014 12:36:00 PM
Lab ID: 1402684-002
Matrix: AQUEOUS
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Hexachlorobutadiene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
2-Hexanone	ND	10		µg/L	1	2/25/2014 5:24:14 AM	R16931
Isopropylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
4-Isopropyltoluene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
4-Methyl-2-pentanone	ND	10		µg/L	1	2/25/2014 5:24:14 AM	R16931
Methylene Chloride	ND	3.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
n-Butylbenzene	ND	3.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
n-Propylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
sec-Butylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Styrene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
tert-Butylbenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
trans-1,2-DCE	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Trichlorofluoromethane	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Vinyl chloride	ND	1.0		µg/L	1	2/25/2014 5:24:14 AM	R16931
Xylenes, Total	ND	1.5		µg/L	1	2/25/2014 5:24:14 AM	R16931
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	2/25/2014 5:24:14 AM	R16931
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	1	2/25/2014 5:24:14 AM	R16931
Surr: Dibromofluoromethane	103	70-130		%REC	1	2/25/2014 5:24:14 AM	R16931
Surr: Toluene-d8	99.2	70-130		%REC	1	2/25/2014 5:24:14 AM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-S-140218
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/18/2014 12:47:00 PM
Lab ID: 1402684-003
Matrix: AQUEOUS
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Toluene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Ethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Naphthalene	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1-Methylnaphthalene	ND	4.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
2-Methylnaphthalene	ND	4.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Acetone	ND	10		µg/L	1	2/25/2014 5:52:58 AM	R16931
Bromobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Bromodichloromethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Bromoform	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Bromomethane	ND	3.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
2-Butanone	ND	10		µg/L	1	2/25/2014 5:52:58 AM	R16931
Carbon disulfide	ND	10		µg/L	1	2/25/2014 5:52:58 AM	R16931
Carbon Tetrachloride	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Chlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Chloroethane	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Chloroform	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Chloromethane	ND	3.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
2-Chlorotoluene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
4-Chlorotoluene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
cis-1,2-DCE	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Dibromochloromethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Dibromomethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1-Dichloroethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1-Dichloroethene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2-Dichloropropane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,3-Dichloropropane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
2,2-Dichloropropane	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-S-140218
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date: 2/18/2014 12:47:00 PM
Lab ID: 1402684-003
Matrix: AQUEOUS
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Hexachlorobutadiene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
2-Hexanone	ND	10		µg/L	1	2/25/2014 5:52:58 AM	R16931
Isopropylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
4-Isopropyltoluene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
4-Methyl-2-pentanone	ND	10		µg/L	1	2/25/2014 5:52:58 AM	R16931
Methylene Chloride	ND	3.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
n-Butylbenzene	ND	3.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
n-Propylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
sec-Butylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Styrene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
tert-Butylbenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
trans-1,2-DCE	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Trichlorofluoromethane	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Vinyl chloride	ND	1.0		µg/L	1	2/25/2014 5:52:58 AM	R16931
Xylenes, Total	ND	1.5		µg/L	1	2/25/2014 5:52:58 AM	R16931
Surr: 1,2-Dichloroethane-d4	105	70-130		%REC	1	2/25/2014 5:52:58 AM	R16931
Surr: 4-Bromofluorobenzene	93.0	70-130		%REC	1	2/25/2014 5:52:58 AM	R16931
Surr: Dibromofluoromethane	102	70-130		%REC	1	2/25/2014 5:52:58 AM	R16931
Surr: Toluene-d8	106	70-130		%REC	1	2/25/2014 5:52:58 AM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date:
Lab ID: 1402684-004
Matrix: TRIP BLANK
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Toluene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Ethylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Naphthalene	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1-Methylnaphthalene	ND	4.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
2-Methylnaphthalene	ND	4.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Acetone	ND	10		µg/L	1	2/24/2014 2:04:54 PM	R16931
Bromobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Bromodichloromethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Bromoform	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Bromomethane	ND	3.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
2-Butanone	ND	10		µg/L	1	2/24/2014 2:04:54 PM	R16931
Carbon disulfide	ND	10		µg/L	1	2/24/2014 2:04:54 PM	R16931
Carbon Tetrachloride	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Chlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Chloroethane	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Chloroform	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Chloromethane	ND	3.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
2-Chlorotoluene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
4-Chlorotoluene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
cis-1,2-DCE	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Dibromochloromethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Dibromomethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1-Dichloroethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1-Dichloroethene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2-Dichloropropane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,3-Dichloropropane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
2,2-Dichloropropane	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Trip Blank
Project: JSP Ground H2O Monitoring CLC Joint
Collection Date:
Lab ID: 1402684-004
Matrix: TRIP BLANK
Received Date: 2/19/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Hexachlorobutadiene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
2-Hexanone	ND	10		µg/L	1	2/24/2014 2:04:54 PM	R16931
Isopropylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
4-Isopropyltoluene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
4-Methyl-2-pentanone	ND	10		µg/L	1	2/24/2014 2:04:54 PM	R16931
Methylene Chloride	ND	3.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
n-Butylbenzene	ND	3.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
n-Propylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
sec-Butylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Styrene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
tert-Butylbenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
trans-1,2-DCE	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Trichlorofluoromethane	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Vinyl chloride	ND	1.0		µg/L	1	2/24/2014 2:04:54 PM	R16931
Xylenes, Total	ND	1.5		µg/L	1	2/24/2014 2:04:54 PM	R16931
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	2/24/2014 2:04:54 PM	R16931
Surr: 4-Bromofluorobenzene	92.4	70-130		%REC	1	2/24/2014 2:04:54 PM	R16931
Surr: Dibromofluoromethane	97.6	70-130		%REC	1	2/24/2014 2:04:54 PM	R16931
Surr: Toluene-d8	97.3	70-130		%REC	1	2/24/2014 2:04:54 PM	R16931

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402684**

26-Feb-14

Client: City of Las Cruces

Project: JSP Ground H2O Monitoring CLC Joint Superf

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16931**	RunNo: **16931**
Prep Date:	Analysis Date: **2/24/2014**	SeqNo: **487364** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402684**

26-Feb-14

Client: City of Las Cruces

Project: JSP Ground H2O Monitoring CLC Joint Superf

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16931**	RunNo: **16931**
Prep Date:	Analysis Date: **2/24/2014**	SeqNo: **487364** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.2	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.5		10.00		95.4	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16931**	RunNo: **16931**
Prep Date:	Analysis Date: **2/24/2014**	SeqNo: **487366** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	18	1.0	20.00	0	88.6	82.2	124			
Chlorobenzene	17	1.0	20.00	0	85.5	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1402684**
26-Feb-14

Client: City of Las Cruces
Project: JSP Ground H2O Monitoring CLC Joint Superf

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16931**	RunNo: **16931**
Prep Date:	Analysis Date: **2/24/2014**	SeqNo: **487366** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	21	1.0	20.00	0	103	83.5	155			
Trichloroethene (TCE)	17	1.0	20.00	0	82.7	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.6	70	130			
Surr: Dibromofluoromethane	11		10.00		108	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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1402684** RcptNo: **1**

Received by/date: MA 02/19/14

Logged By: **Michelle Garcia** 2/19/2014 8:30:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 2/19/2014 8:46:28 AM Michelle Garcia

Reviewed By: IO 02/19/2014

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ✔	NA
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? ____
14. Is it clear what analyses were requested?	Yes ✔	No	
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: ____

By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: ____

Client Instructions: ____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: JSP Ground H2O Monitoring (LLC Joint Superfund Project)

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1402684	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
7/11/14	1248	Ground H2O	6WMW11-I_140211	3-40ml	HgCl2	001										X		
7/13/14	1236	Ground H2O	6WMW11-D_140213	3-40ml	HgCl2	002										X		
8/14	1247	Ground H2O	6WMW15-S_140218	3-40ml	HgCl2	003										X		
8/14	—	Lab H2O	TRIP BLANK from HALL	2-40ml	HgCl2	004										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
7/18/14	1430	Laura Montoya				Please send results & final reports to lguerra@las-cruces.org
Date:	Time:	Relinquished by:	Received by:	07/19/14	0830	Send invoice to Luis Guerra % CLC.

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 03, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Monthly Process Center OrderNo.: 1402857

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/21/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:00:00 AM
Lab ID: 1402857-001
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 1:23:08 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 1:23:08 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 1:23:08 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:00:00 AM
Lab ID: 1402857-001
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 1:23:08 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 1:23:08 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Tetrachloroethene (PCE)	10	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 1:23:08 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 1:23:08 PM	R17020
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	2/27/2014 1:23:08 PM	R17020
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	2/27/2014 1:23:08 PM	R17020
Surr: Dibromofluoromethane	111	70-130		%REC	1	2/27/2014 1:23:08 PM	R17020
Surr: Toluene-d8	92.9	70-130		%REC	1	2/27/2014 1:23:08 PM	R17020

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

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:30:00 AM
Lab ID: 1402857-002
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 3:26:38 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 3:26:38 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 3:26:38 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020

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

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:30:00 AM
Lab ID: 1402857-002
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 3:26:38 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 3:26:38 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Tetrachloroethene (PCE)	25	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 3:26:38 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 3:26:38 PM	R17020
Surr: 1,2-Dichloroethane-d4	110	70-130		%REC	1	2/27/2014 3:26:38 PM	R17020
Surr: 4-Bromofluorobenzene	98.9	70-130		%REC	1	2/27/2014 3:26:38 PM	R17020
Surr: Dibromofluoromethane	114	70-130		%REC	1	2/27/2014 3:26:38 PM	R17020
Surr: Toluene-d8	95.0	70-130		%REC	1	2/27/2014 3:26:38 PM	R17020

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

Qualifiers:

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:33:00 AM
Lab ID: 1402857-003
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 3:57:32 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 3:57:32 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 3:57:32 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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CLIENT: City of Las Cruces
Client Sample ID: IS1_140219
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Collection Date: 2/19/2014 9:33:00 AM
Lab ID: 1402857-003
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 3:57:32 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 3:57:32 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Tetrachloroethene (PCE)	13	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 3:57:32 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 3:57:32 PM	R17020
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	2/27/2014 3:57:32 PM	R17020
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	2/27/2014 3:57:32 PM	R17020
Surr: Dibromofluoromethane	107	70-130		%REC	1	2/27/2014 3:57:32 PM	R17020
Surr: Toluene-d8	97.5	70-130		%REC	1	2/27/2014 3:57:32 PM	R17020

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Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:38:00 AM
Lab ID: 1402857-004
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 4:28:27 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 4:28:27 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 4:28:27 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:38:00 AM
Lab ID: 1402857-004
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 4:28:27 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 4:28:27 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 4:28:27 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 4:28:27 PM	R17020
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	1	2/27/2014 4:28:27 PM	R17020
Surr: 4-Bromofluorobenzene	89.4	70-130		%REC	1	2/27/2014 4:28:27 PM	R17020
Surr: Dibromofluoromethane	119	70-130		%REC	1	2/27/2014 4:28:27 PM	R17020
Surr: Toluene-d8	97.2	70-130		%REC	1	2/27/2014 4:28:27 PM	R17020

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
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O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:42:00 AM
Lab ID: 1402857-005
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 4:59:19 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 4:59:19 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 4:59:19 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:42:00 AM
Lab ID: 1402857-005
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 4:59:19 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 4:59:19 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 4:59:19 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 4:59:19 PM	R17020
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	2/27/2014 4:59:19 PM	R17020
Surr: 4-Bromofluorobenzene	90.1	70-130		%REC	1	2/27/2014 4:59:19 PM	R17020
Surr: Dibromofluoromethane	101	70-130		%REC	1	2/27/2014 4:59:19 PM	R17020
Surr: Toluene-d8	97.5	70-130		%REC	1	2/27/2014 4:59:19 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:46:00 AM
Lab ID: 1402857-006
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 5:30:13 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Bromoform	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 5:30:13 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 5:30:13 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Dibromochloromethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:46:00 AM
Lab ID: 1402857-006
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 5:30:13 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 5:30:13 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 5:30:13 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 5:30:13 PM	R17020
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	1	2/27/2014 5:30:13 PM	R17020
Surr: 4-Bromofluorobenzene	97.1	70-130		%REC	1	2/27/2014 5:30:13 PM	R17020
Surr: Dibromofluoromethane	110	70-130		%REC	1	2/27/2014 5:30:13 PM	R17020
Surr: Toluene-d8	96.2	70-130		%REC	1	2/27/2014 5:30:13 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140219 DUPE
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:48:00 AM
Lab ID: 1402857-007
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Toluene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Ethylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Naphthalene	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
2-Methylnaphthalene	ND	4.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Acetone	ND	10		µg/L	1	2/27/2014 6:01:03 PM	R17020
Bromobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Bromodichloromethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Bromoform	7.8	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Bromomethane	ND	3.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
2-Butanone	ND	10		µg/L	1	2/27/2014 6:01:03 PM	R17020
Carbon disulfide	ND	10		µg/L	1	2/27/2014 6:01:03 PM	R17020
Carbon Tetrachloride	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Chlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Chloroethane	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Chloroform	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Chloromethane	ND	3.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
2-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
4-Chlorotoluene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
cis-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Dibromochloromethane	1.5	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Dibromomethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1-Dichloroethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1-Dichloroethene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,3-Dichloropropane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
2,2-Dichloropropane	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140219 DUPE
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:48:00 AM
Lab ID: 1402857-007
Matrix: AQUEOUS
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Hexachlorobutadiene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
2-Hexanone	ND	10		µg/L	1	2/27/2014 6:01:03 PM	R17020
Isopropylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
4-Isopropyltoluene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
4-Methyl-2-pentanone	ND	10		µg/L	1	2/27/2014 6:01:03 PM	R17020
Methylene Chloride	ND	3.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
n-Butylbenzene	ND	3.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
n-Propylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
sec-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Styrene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
tert-Butylbenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
trans-1,2-DCE	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Trichlorofluoromethane	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Vinyl chloride	ND	1.0		µg/L	1	2/27/2014 6:01:03 PM	R17020
Xylenes, Total	ND	1.5		µg/L	1	2/27/2014 6:01:03 PM	R17020
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	2/27/2014 6:01:03 PM	R17020
Surr: 4-Bromofluorobenzene	92.9	70-130		%REC	1	2/27/2014 6:01:03 PM	R17020
Surr: Dibromofluoromethane	108	70-130		%REC	1	2/27/2014 6:01:03 PM	R17020
Surr: Toluene-d8	96.6	70-130		%REC	1	2/27/2014 6:01:03 PM	R17020

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:56:00 AM
Lab ID: 1402857-008 **Matrix:** AIR
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Toluene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Ethylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Naphthalene	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
1-Methylnaphthalene	ND	0.40		µg/L	1	2/25/2014 1:42:19 PM	R16956
2-Methylnaphthalene	ND	0.40		µg/L	1	2/25/2014 1:42:19 PM	R16956
Acetone	ND	1.0		µg/L	1	2/25/2014 1:42:19 PM	R16956
Bromobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Bromodichloromethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Bromoform	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Bromomethane	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
2-Butanone	ND	1.0		µg/L	1	2/25/2014 1:42:19 PM	R16956
Carbon disulfide	ND	1.0		µg/L	1	2/25/2014 1:42:19 PM	R16956
Carbon tetrachloride	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Chlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Chloroethane	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
Chloroform	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Chloromethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
2-Chlorotoluene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
4-Chlorotoluene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
cis-1,2-DCE	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
Dibromochloromethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Dibromomethane	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,3-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,4-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Dichlorodifluoromethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1-Dichloroethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1-Dichloroethene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,3-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
2,2-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 9:56:00 AM
Lab ID: 1402857-008 **Matrix:** AIR
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Hexachlorobutadiene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
2-Hexanone	ND	1.0		µg/L	1	2/25/2014 1:42:19 PM	R16956
Isopropylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
4-Isopropyltoluene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
4-Methyl-2-pentanone	ND	1.0		µg/L	1	2/25/2014 1:42:19 PM	R16956
Methylene chloride	ND	0.30		µg/L	1	2/25/2014 1:42:19 PM	R16956
n-Butylbenzene	ND	0.30		µg/L	1	2/25/2014 1:42:19 PM	R16956
n-Propylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
sec-Butylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Styrene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
tert-Butylbenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
trans-1,2-DCE	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1,1-Trichloroethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,1,2-Trichloroethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Trichloroethene (TCE)	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Trichlorofluoromethane	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
1,2,3-Trichloropropane	ND	0.20		µg/L	1	2/25/2014 1:42:19 PM	R16956
Vinyl chloride	ND	0.10		µg/L	1	2/25/2014 1:42:19 PM	R16956
Xylenes, Total	ND	0.15		µg/L	1	2/25/2014 1:42:19 PM	R16956
Surr: Dibromofluoromethane	102	70-130		%REC	1	2/25/2014 1:42:19 PM	R16956
Surr: 1,2-Dichloroethane-d4	81.0	70-130		%REC	1	2/25/2014 1:42:19 PM	R16956
Surr: Toluene-d8	91.0	70-130		%REC	1	2/25/2014 1:42:19 PM	R16956
Surr: 4-Bromofluorobenzene	113	70-130		%REC	1	2/25/2014 1:42:19 PM	R16956

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 10:00:00 AM
Lab ID: 1402857-009 **Matrix:** AIR
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Toluene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Ethylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Naphthalene	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
1-Methylnaphthalene	ND	0.40		µg/L	1	2/25/2014 2:12:39 PM	R16956
2-Methylnaphthalene	ND	0.40		µg/L	1	2/25/2014 2:12:39 PM	R16956
Acetone	ND	1.0		µg/L	1	2/25/2014 2:12:39 PM	R16956
Bromobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Bromodichloromethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Bromoform	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Bromomethane	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
2-Butanone	ND	1.0		µg/L	1	2/25/2014 2:12:39 PM	R16956
Carbon disulfide	ND	1.0		µg/L	1	2/25/2014 2:12:39 PM	R16956
Carbon tetrachloride	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Chlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Chloroethane	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
Chloroform	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Chloromethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
2-Chlorotoluene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
4-Chlorotoluene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
cis-1,2-DCE	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
Dibromochloromethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Dibromomethane	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,3-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,4-Dichlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Dichlorodifluoromethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1-Dichloroethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1-Dichloroethene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,3-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
2,2-Dichloropropane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140219
Project: CLC Joint Superfund Monthly Process C
Collection Date: 2/19/2014 10:00:00 AM
Lab ID: 1402857-009 **Matrix:** AIR
Received Date: 2/21/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Hexachlorobutadiene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
2-Hexanone	ND	1.0		µg/L	1	2/25/2014 2:12:39 PM	R16956
Isopropylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
4-Isopropyltoluene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
4-Methyl-2-pentanone	ND	1.0		µg/L	1	2/25/2014 2:12:39 PM	R16956
Methylene chloride	ND	0.30		µg/L	1	2/25/2014 2:12:39 PM	R16956
n-Butylbenzene	ND	0.30		µg/L	1	2/25/2014 2:12:39 PM	R16956
n-Propylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
sec-Butylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Styrene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
tert-Butylbenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Tetrachloroethene (PCE)	0.13	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
trans-1,2-DCE	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1,1-Trichloroethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,1,2-Trichloroethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Trichloroethene (TCE)	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Trichlorofluoromethane	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
1,2,3-Trichloropropane	ND	0.20		µg/L	1	2/25/2014 2:12:39 PM	R16956
Vinyl chloride	ND	0.10		µg/L	1	2/25/2014 2:12:39 PM	R16956
Xylenes, Total	ND	0.15		µg/L	1	2/25/2014 2:12:39 PM	R16956
Surr: Dibromofluoromethane	104	70-130		%REC	1	2/25/2014 2:12:39 PM	R16956
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%REC	1	2/25/2014 2:12:39 PM	R16956
Surr: Toluene-d8	96.4	70-130		%REC	1	2/25/2014 2:12:39 PM	R16956
Surr: 4-Bromofluorobenzene	97.9	70-130		%REC	1	2/25/2014 2:12:39 PM	R16956

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1402857**
03-Mar-14

Client: City of Las Cruces
Project: CLC Joint Superfund Monthly Process Center

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16956**	RunNo: **16956**
Prep Date:	Analysis Date: **2/25/2014**	SeqNo: **488036** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402857**

03-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R16956**	RunNo: **16956**
Prep Date:	Analysis Date: **2/25/2014**	SeqNo: **488036** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		107	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.8		10.00		97.7	70	130			

Sample ID **100nglcs,200ngacac**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R16956**	RunNo: **16956**
Prep Date:	Analysis Date: **2/25/2014**	SeqNo: **488038** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	113	70	130			
Toluene	20	1.0	20.00	0	100	82.2	124			
Chlorobenzene	19	1.0	20.00	0	93.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402857**

03-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID	**100nglcs,200ngacac**	SampType:	**LCS**		TestCode:	**EPA Method 8260B: VOLATILES**				
Client ID:	**LCSW**	Batch ID:	**R16956**		RunNo:	**16956**				
Prep Date:		Analysis Date:	**2/25/2014**		SeqNo:	**488038**	Units:	**µg/L**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	25	1.0	20.00	0	124	83.5	155			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	8.9		10.00		89.2	70	130			
Surr: Toluene-d8	9.8		10.00		97.6	70	130			

Sample ID	**5ml rb**	SampType:	**MBLK**		TestCode:	**EPA Method 8260B: VOLATILES**				
Client ID:	**PBW**	Batch ID:	**R17020**		RunNo:	**17020**				
Prep Date:		Analysis Date:	**2/27/2014**		SeqNo:	**489571**	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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402857**

03-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17020**	RunNo: **17020**
Prep Date:	Analysis Date: **2/27/2014**	SeqNo: **489571** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1402857**

03-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17020**	RunNo: **17020**
Prep Date:	Analysis Date: **2/27/2014**	SeqNo: **489571** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.5		10.00		95.1	70	130			
Surr: Dibromofluoromethane	11		10.00		109	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17020**	RunNo: **17020**
Prep Date:	Analysis Date: **2/27/2014**	SeqNo: **489573** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	20	1.0	20.00	0	99.2	82.2	124			
Chlorobenzene	19	1.0	20.00	0	96.0	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	119	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	97.4	70	130			
Surr: 1,2-Dichloroethane-d4	7.5		10.00		74.8	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.1	70	130			
Surr: Dibromofluoromethane	8.6		10.00		86.3	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1402857 | RcptNo: 1

Received by/date: MG 02/21/14

Logged By: **Michelle Garcia** 2/21/2014 9:45:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 2/21/2014 2:21:53 PM Michelle Garcia

Reviewed By: JB 2/21/14

Chain of Custody

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?	UPS		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☒ ~~NELAP~~ ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND MONTHLY PROCESS CENTER

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1402857	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B ~~(VOA)~~ VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
9/14	9:00	Drink H2O	CLC27_140219	340ml Vial	$HgCl_2$	001										X		
9/14	9:30	Drink H2O	CLC18_140219	340ml Vial	$HgCl_2$	002										X		
9/14	9:33	Drink H2O	ISI_140219	340ml Vial	$HgCl_2$	003										X		
9/14	9:38	Drink H2O	C1_140219	340ml Vial	$HgCl_2$	004										X		
9/14	9:42	Drink H2O	C2_140219	340ml Vial	$HgCl_2$	005										X		
9/14	9:46	Drink H2O	ES1_140219	340ml Vial	$HgCl_2$	006										X		
9/14	9:48	Drink H2O	ES1_140219 DUP	340ml Vial	$HgCl_2$	007										X		
9/14	9:56	AIR	AS1_140219	1 Tedlar	None	008										X		
9/14	10:00	AIR	AS2_140219	1 Tedlar	None	009										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/19	1530	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	Date	Time
				09/22/14	0945

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 06, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Ground H2O Monitoring (CLC-JSP) OrderNo.: 1403130

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/5/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-I_140220
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/20/2014 2:15:00 PM
Lab ID: 1403130-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Toluene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Ethylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Naphthalene	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
2-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Acetone	ND	10		µg/L	1	3/5/2014 4:46:40 PM	R17128
Bromobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Bromodichloromethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Bromoform	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Bromomethane	ND	3.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
2-Butanone	ND	10		µg/L	1	3/5/2014 4:46:40 PM	R17128
Carbon disulfide	ND	10		µg/L	1	3/5/2014 4:46:40 PM	R17128
Carbon Tetrachloride	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Chlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Chloroethane	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Chloroform	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Chloromethane	ND	3.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
2-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
4-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
cis-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Dibromochloromethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Dibromomethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1-Dichloroethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1-Dichloroethene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,3-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
2,2-Dichloropropane	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-I_140220
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/20/2014 2:15:00 PM
Lab ID: 1403130-001 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Hexachlorobutadiene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
2-Hexanone	ND	10		µg/L	1	3/5/2014 4:46:40 PM	R17128
Isopropylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
4-Isopropyltoluene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
4-Methyl-2-pentanone	ND	10		µg/L	1	3/5/2014 4:46:40 PM	R17128
Methylene Chloride	ND	3.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
n-Butylbenzene	ND	3.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
n-Propylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
sec-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Styrene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
tert-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Tetrachloroethene (PCE)	1.1	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
trans-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Trichlorofluoromethane	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Vinyl chloride	ND	1.0		µg/L	1	3/5/2014 4:46:40 PM	R17128
Xylenes, Total	ND	1.5		µg/L	1	3/5/2014 4:46:40 PM	R17128
Surr: 1,2-Dichloroethane-d4	73.8	70-130		%REC	1	3/5/2014 4:46:40 PM	R17128
Surr: 4-Bromofluorobenzene	112	70-130		%REC	1	3/5/2014 4:46:40 PM	R17128
Surr: Dibromofluoromethane	114	70-130		%REC	1	3/5/2014 4:46:40 PM	R17128
Surr: Toluene-d8	93.6	70-130		%REC	1	3/5/2014 4:46:40 PM	R17128

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
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J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-D_140225
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/25/2014 1:12:00 PM
Lab ID: 1403130-002 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Toluene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Ethylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Naphthalene	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
2-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Acetone	ND	10		µg/L	1	3/5/2014 6:49:49 PM	R17128
Bromobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Bromodichloromethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Bromoform	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Bromomethane	ND	3.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
2-Butanone	ND	10		µg/L	1	3/5/2014 6:49:49 PM	R17128
Carbon disulfide	ND	10		µg/L	1	3/5/2014 6:49:49 PM	R17128
Carbon Tetrachloride	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Chlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Chloroethane	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Chloroform	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Chloromethane	ND	3.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
2-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
4-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
cis-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Dibromochloromethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Dibromomethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1-Dichloroethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1-Dichloroethene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,3-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
2,2-Dichloropropane	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128

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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: GWMW15-D_140225
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/25/2014 1:12:00 PM
Lab ID: 1403130-002 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Hexachlorobutadiene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
2-Hexanone	ND	10		µg/L	1	3/5/2014 6:49:49 PM	R17128
Isopropylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
4-Isopropyltoluene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
4-Methyl-2-pentanone	ND	10		µg/L	1	3/5/2014 6:49:49 PM	R17128
Methylene Chloride	ND	3.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
n-Butylbenzene	ND	3.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
n-Propylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
sec-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Styrene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
tert-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
trans-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Trichlorofluoromethane	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Vinyl chloride	ND	1.0		µg/L	1	3/5/2014 6:49:49 PM	R17128
Xylenes, Total	ND	1.5		µg/L	1	3/5/2014 6:49:49 PM	R17128
Surr: 1,2-Dichloroethane-d4	73.3	70-130		%REC	1	3/5/2014 6:49:49 PM	R17128
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	3/5/2014 6:49:49 PM	R17128
Surr: Dibromofluoromethane	112	70-130		%REC	1	3/5/2014 6:49:49 PM	R17128
Surr: Toluene-d8	95.2	70-130		%REC	1	3/5/2014 6:49:49 PM	R17128

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC57_140227
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/27/2014 12:19:00 PM
Lab ID: 1403130-003 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Toluene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Ethylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Naphthalene	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
2-Methylnaphthalene	ND	4.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Acetone	ND	10		µg/L	1	3/5/2014 7:20:43 PM	R17128
Bromobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Bromodichloromethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Bromoform	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Bromomethane	ND	3.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
2-Butanone	ND	10		µg/L	1	3/5/2014 7:20:43 PM	R17128
Carbon disulfide	ND	10		µg/L	1	3/5/2014 7:20:43 PM	R17128
Carbon Tetrachloride	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Chlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Chloroethane	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Chloroform	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Chloromethane	ND	3.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
2-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
4-Chlorotoluene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
cis-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Dibromochloromethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Dibromomethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1-Dichloroethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1-Dichloroethene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,3-Dichloropropane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
2,2-Dichloropropane	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC57_140227
Project: CLC Ground H2O Monitoring (CLC-JSP
Collection Date: 2/27/2014 12:19:00 PM
Lab ID: 1403130-003 **Matrix:** AQUEOUS **Received Date:** 3/5/2014 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Hexachlorobutadiene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
2-Hexanone	ND	10		µg/L	1	3/5/2014 7:20:43 PM	R17128
Isopropylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
4-Isopropyltoluene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
4-Methyl-2-pentanone	ND	10		µg/L	1	3/5/2014 7:20:43 PM	R17128
Methylene Chloride	ND	3.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
n-Butylbenzene	ND	3.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
n-Propylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
sec-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Styrene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
tert-Butylbenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
trans-1,2-DCE	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Trichlorofluoromethane	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Vinyl chloride	ND	1.0		µg/L	1	3/5/2014 7:20:43 PM	R17128
Xylenes, Total	ND	1.5		µg/L	1	3/5/2014 7:20:43 PM	R17128
Surr: 1,2-Dichloroethane-d4	74.0	70-130		%REC	1	3/5/2014 7:20:43 PM	R17128
Surr: 4-Bromofluorobenzene	109	70-130		%REC	1	3/5/2014 7:20:43 PM	R17128
Surr: Dibromofluoromethane	111	70-130		%REC	1	3/5/2014 7:20:43 PM	R17128
Surr: Toluene-d8	95.8	70-130		%REC	1	3/5/2014 7:20:43 PM	R17128

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403130**

06-Mar-14

Client: City of Las Cruces

Project: CLC Ground H2O Monitoring (CLC-JSP)

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R17128**	RunNo: **17128**	
Prep Date:	Analysis Date: **3/5/2014**	SeqNo: **492487**	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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403130**

06-Mar-14

Client: City of Las Cruces

Project: CLC Ground H2O Monitoring (CLC-JSP)

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17128**	RunNo: **17128**
Prep Date:	Analysis Date: **3/5/2014**	SeqNo: **492487** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	7.1		10.00		71.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.5	70	130			
Surr: Dibromofluoromethane	11		10.00		115	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID **100ng lcsc**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17128**	RunNo: **17128**
Prep Date:	Analysis Date: **3/5/2014**	SeqNo: **492492** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	70	130			
Toluene	18	1.0	20.00	0	91.8	82.2	124			
Chlorobenzene	18	1.0	20.00	0	91.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403130**

06-Mar-14

Client: City of Las Cruces

Project: CLC Ground H2O Monitoring (CLC-JSP)

Sample ID **100ng lcsc**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17128**	RunNo: **17128**
Prep Date:	Analysis Date: **3/5/2014**	SeqNo: **492492** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	116	83.5	155			
Trichloroethene (TCE)	19	1.0	20.00	0	97.0	70	130			
Surr: 1,2-Dichloroethane-d4	7.4		10.00		73.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		106	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.7	70	130			
Surr: Toluene-d8	10		10.00		99.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1403130 RcptNo: 1

Received by/date: 03/05/14

Logged By: **Lindsay Mangin** 3/5/2014 8:30:00 AM

Completed By: **Lindsay Mangin** 3/5/2014 9:26:30 AM

Reviewed By: 03/05/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces (CLC)

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: JSP Ground H2O MONITORING (CLC-JSP)

Project #:

Project Manager: Luis Guerra

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1403130
2/20/14	1415	Ground H2O	GWMW15-I_140220	3-40ml Vial	HgCl2	-001
2/25/14	1312	Ground H2O	GWMW15-D_140225	3-40ml Vial	HgCl2	-002
2/27/14	1219	Ground H2O	CLC57_140227	3-40ml Vial	HgCl2	-003

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
									X						
									X						
									X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/4/14	1430	Laura Montoya		02/05/14	0830
Date:	Time:	Relinquished by: Laura Montoya	Received by:	Date	Time

Remarks: There is one sample with a HO Time that expires on Thurs. 3-6-14 Please make this analysis a PRIORITY

Send results to Luis Guerra c/o CLC

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 19, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: JSP Ground Monitoring (CLC-JSP) OrderNo.: 1403407

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/11/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC20_140306
Project: JSP Ground Monitoring (CLC-JSP)
Collection Date: 3/6/2014 1:22:00 PM
Lab ID: 1403407-001 **Matrix:** AQUEOUS **Received Date:** 3/11/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Toluene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Ethylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Naphthalene	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
2-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Acetone	ND	10		µg/L	1	3/12/2014 1:38:35 PM	R17272
Bromobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Bromodichloromethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Bromoform	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Bromomethane	ND	3.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
2-Butanone	ND	10		µg/L	1	3/12/2014 1:38:35 PM	R17272
Carbon disulfide	ND	10		µg/L	1	3/12/2014 1:38:35 PM	R17272
Carbon Tetrachloride	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Chlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Chloroethane	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Chloroform	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Chloromethane	ND	3.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
2-Chlorotoluene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
4-Chlorotoluene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
cis-1,2-DCE	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Dibromochloromethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Dibromomethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1-Dichloroethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1-Dichloroethene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2-Dichloropropane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,3-Dichloropropane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
2,2-Dichloropropane	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC20_140306
Project: JSP Ground Monitoring (CLC-JSP)
Collection Date: 3/6/2014 1:22:00 PM
Lab ID: 1403407-001 **Matrix:** AQUEOUS **Received Date:** 3/11/2014 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Hexachlorobutadiene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
2-Hexanone	ND	10		µg/L	1	3/12/2014 1:38:35 PM	R17272
Isopropylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
4-Isopropyltoluene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
4-Methyl-2-pentanone	ND	10		µg/L	1	3/12/2014 1:38:35 PM	R17272
Methylene Chloride	ND	3.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
n-Butylbenzene	ND	3.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
n-Propylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
sec-Butylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Styrene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
tert-Butylbenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
trans-1,2-DCE	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Trichlorofluoromethane	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Vinyl chloride	ND	1.0		µg/L	1	3/12/2014 1:38:35 PM	R17272
Xylenes, Total	ND	1.5		µg/L	1	3/12/2014 1:38:35 PM	R17272
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	3/12/2014 1:38:35 PM	R17272
Surr: 4-Bromofluorobenzene	91.0	70-130		%REC	1	3/12/2014 1:38:35 PM	R17272
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	3/12/2014 1:38:35 PM	R17272
Surr: Toluene-d8	89.1	70-130		%REC	1	3/12/2014 1:38:35 PM	R17272

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403407**

19-Mar-14

Client: City of Las Cruces

Project: JSP Ground Monitoring (CLC-JSP)

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17272**	RunNo: **17272**
Prep Date:	Analysis Date: **3/12/2014**	SeqNo: **497522** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403407**

19-Mar-14

Client: City of Las Cruces

Project: JSP Ground Monitoring (CLC-JSP)

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17272**	RunNo: **17272**
Prep Date:	Analysis Date: **3/12/2014**	SeqNo: **497522** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.7	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.8	70	130			
Surr: Dibromofluoromethane	10		10.00		100	70	130			
Surr: Toluene-d8	9.1		10.00		91.2	70	130			

Sample ID **100ng LCS2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17272**	RunNo: **17272**
Prep Date:	Analysis Date: **3/12/2014**	SeqNo: **497524** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.4	70	130			
Toluene	15	1.0	20.00	0	75.0	80	120			S
Chlorobenzene	16	1.0	20.00	0	79.3	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403407**

19-Mar-14

Client: City of Las Cruces

Project: JSP Ground Monitoring (CLC-JSP)

Sample ID **100ng LCS2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17272**	RunNo: **17272**
Prep Date:	Analysis Date: **3/12/2014**	SeqNo: **497524** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15	1.0	20.00	0	76.9	90	143			S
Trichloroethene (TCE)	17	1.0	20.00	0	84.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.5	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		89.7	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	9.1		10.00		90.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1403407** RcptNo: **1**

Received by/date: 03/11/14

Logged By: **Ashley Gallegos** **3/11/2014 9:00:00 AM**

Completed By: **Ashley Gallegos** **3/11/2014 3:09:07 PM**

Reviewed By: 03/11/14

Chain of Custody

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?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
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: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Not Present			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces	☒ Standard ☐ Rush
Mailing Address: P.O. Box 20000 Las Cruces, NM 88004	Project Name: JSP Ground H2O Monitoring (CLC-JSP)
Phone #: 575-528-3609	Project #:
email or Fax#: 575-528-3630	Project Manager: Luis Guerra
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: Laura Montoya
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☒ EDD (Type) EXCEL	Sample Temperature: 3.9

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1403407	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
3/6/14	1322	Ground H2O	CLC20_140306	3-40ml VOA HgCl2		-001										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/10/14	1400	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	03/11/14	0900

Remarks: Please send results and reports to lguerra@las-cruces.o
Send invoice to Luis Guerra C/O CL

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
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Website: www.hallenvironmental.com

March 20, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Monthly Process Center OrderNo.: 1403527

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/12/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:13:00 AM
Lab ID: 1403527-001
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 2:00:21 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 2:00:21 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 2:00:21 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:13:00 AM
Lab ID: 1403527-001
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 2:00:21 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 2:00:21 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Tetrachloroethene (PCE)	12	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 2:00:21 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 2:00:21 PM	R17303
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%REC	1	3/13/2014 2:00:21 PM	R17303
Surr: 4-Bromofluorobenzene	90.4	70-130		%REC	1	3/13/2014 2:00:21 PM	R17303
Surr: Dibromofluoromethane	95.5	70-130		%REC	1	3/13/2014 2:00:21 PM	R17303
Surr: Toluene-d8	91.5	70-130		%REC	1	3/13/2014 2:00:21 PM	R17303

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

Qualifiers:

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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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:32:00 AM
Lab ID: 1403527-002
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 3:24:25 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 3:24:25 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 3:24:25 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:32:00 AM
Lab ID: 1403527-002
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 3:24:25 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 3:24:25 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Tetrachloroethene (PCE)	28	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 3:24:25 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 3:24:25 PM	R17303
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%REC	1	3/13/2014 3:24:25 PM	R17303
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	3/13/2014 3:24:25 PM	R17303
Surr: Dibromofluoromethane	94.3	70-130		%REC	1	3/13/2014 3:24:25 PM	R17303
Surr: Toluene-d8	90.9	70-130		%REC	1	3/13/2014 3:24:25 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:37:00 AM
Lab ID: 1403527-003 **Matrix:** AQUEOUS **Received Date:** 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 3:52:26 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 3:52:26 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 3:52:26 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:37:00 AM
Lab ID: 1403527-003
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 3:52:26 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 3:52:26 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Tetrachloroethene (PCE)	15	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 3:52:26 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 3:52:26 PM	R17303
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%REC	1	3/13/2014 3:52:26 PM	R17303
Surr: 4-Bromofluorobenzene	91.8	70-130		%REC	1	3/13/2014 3:52:26 PM	R17303
Surr: Dibromofluoromethane	95.8	70-130		%REC	1	3/13/2014 3:52:26 PM	R17303
Surr: Toluene-d8	90.7	70-130		%REC	1	3/13/2014 3:52:26 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:41:00 AM
Lab ID: 1403527-004
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 4:20:32 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 4:20:32 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 4:20:32 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:41:00 AM
Lab ID: 1403527-004
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 4:20:32 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 4:20:32 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 4:20:32 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 4:20:32 PM	R17303
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%REC	1	3/13/2014 4:20:32 PM	R17303
Surr: 4-Bromofluorobenzene	87.8	70-130		%REC	1	3/13/2014 4:20:32 PM	R17303
Surr: Dibromofluoromethane	89.7	70-130		%REC	1	3/13/2014 4:20:32 PM	R17303
Surr: Toluene-d8	91.9	70-130		%REC	1	3/13/2014 4:20:32 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140311(DUPE)
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:42:00 AM
Lab ID: 1403527-005 **Matrix:** AQUEOUS **Received Date:** 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 4:48:46 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 4:48:46 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 4:48:46 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140311(DUPE)
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:42:00 AM
Lab ID: 1403527-005 **Matrix:** AQUEOUS **Received Date:** 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 4:48:46 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 4:48:46 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 4:48:46 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 4:48:46 PM	R17303
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%REC	1	3/13/2014 4:48:46 PM	R17303
Surr: 4-Bromofluorobenzene	91.7	70-130		%REC	1	3/13/2014 4:48:46 PM	R17303
Surr: Dibromofluoromethane	89.1	70-130		%REC	1	3/13/2014 4:48:46 PM	R17303
Surr: Toluene-d8	90.3	70-130		%REC	1	3/13/2014 4:48:46 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:46:00 AM
Lab ID: 1403527-006
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 5:16:38 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Bromoform	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 5:16:38 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 5:16:38 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Dibromochloromethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:46:00 AM
Lab ID: 1403527-006
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 5:16:38 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 5:16:38 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 5:16:38 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 5:16:38 PM	R17303
Surr: 1,2-Dichloroethane-d4	88.7	70-130		%REC	1	3/13/2014 5:16:38 PM	R17303
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	1	3/13/2014 5:16:38 PM	R17303
Surr: Dibromofluoromethane	94.8	70-130		%REC	1	3/13/2014 5:16:38 PM	R17303
Surr: Toluene-d8	90.2	70-130		%REC	1	3/13/2014 5:16:38 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:53:00 AM
Lab ID: 1403527-007
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Toluene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Ethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Naphthalene	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
2-Methylnaphthalene	ND	4.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Acetone	ND	10		µg/L	1	3/13/2014 5:44:30 PM	R17303
Bromobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Bromodichloromethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Bromoform	7.4	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Bromomethane	ND	3.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
2-Butanone	ND	10		µg/L	1	3/13/2014 5:44:30 PM	R17303
Carbon disulfide	ND	10		µg/L	1	3/13/2014 5:44:30 PM	R17303
Carbon Tetrachloride	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Chlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Chloroethane	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Chloroform	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Chloromethane	ND	3.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
2-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
4-Chlorotoluene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
cis-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Dibromochloromethane	1.1	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Dibromomethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1-Dichloroethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1-Dichloroethene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,3-Dichloropropane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
2,2-Dichloropropane	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 9:53:00 AM
Lab ID: 1403527-007
Matrix: AQUEOUS
Received Date: 3/12/2014 9:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Hexachlorobutadiene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
2-Hexanone	ND	10		µg/L	1	3/13/2014 5:44:30 PM	R17303
Isopropylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
4-Isopropyltoluene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
4-Methyl-2-pentanone	ND	10		µg/L	1	3/13/2014 5:44:30 PM	R17303
Methylene Chloride	ND	3.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
n-Butylbenzene	ND	3.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
n-Propylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
sec-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Styrene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
tert-Butylbenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
trans-1,2-DCE	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Trichlorofluoromethane	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Vinyl chloride	ND	1.0		µg/L	1	3/13/2014 5:44:30 PM	R17303
Xylenes, Total	ND	1.5		µg/L	1	3/13/2014 5:44:30 PM	R17303
Surr: 1,2-Dichloroethane-d4	89.8	70-130		%REC	1	3/13/2014 5:44:30 PM	R17303
Surr: 4-Bromofluorobenzene	99.0	70-130		%REC	1	3/13/2014 5:44:30 PM	R17303
Surr: Dibromofluoromethane	97.0	70-130		%REC	1	3/13/2014 5:44:30 PM	R17303
Surr: Toluene-d8	89.2	70-130		%REC	1	3/13/2014 5:44:30 PM	R17303

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403527**

20-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17303**	RunNo: **17303**
Prep Date:	Analysis Date: **3/13/2014**	SeqNo: **498461** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403527**

20-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17303**	RunNo: **17303**
Prep Date:	Analysis Date: **3/13/2014**	SeqNo: **498461** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.0	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.4	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.6	70	130			
Surr: Toluene-d8	9.0		10.00		89.7	70	130			

Sample ID **100ng LCS**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17303**	RunNo: **17303**
Prep Date:	Analysis Date: **3/13/2014**	SeqNo: **498463** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24	1.0	20.00	0	120	70	130			
Toluene	21	1.0	20.00	0	107	80	120			
Chlorobenzene	21	1.0	20.00	0	104	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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403527**

20-Mar-14

Client: City of Las Cruces

Project: CLC Joint Superfund Monthly Process Center

Sample ID **100ng LCS**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17303**	RunNo: **17303**
Prep Date:	Analysis Date: **3/13/2014**	SeqNo: **498463** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22	1.0	20.00	0	109	90	143			
Trichloroethene (TCE)	23	1.0	20.00	0	114	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.5	70	130			
Surr: 4-Bromofluorobenzene	8.8		10.00		87.9	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	9.0		10.00		90.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1403527 | RcptNo: 1

Received by/date: LM 03/12/14

Logged By: **Michelle Garcia** 3/12/2014 9:20:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 3/13/2014 9:35:19 AM Michelle Garcia

Reviewed By: AT 03/13/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:

☑ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☑ EDD (Type) EXCELL

Turn Around Time:

☑ Standard ☐ Rush

Project Name: CLC JOINT SUPERFUND MONTHLY PROCESS CENTER

Project #:

Project Manager: Luis Guerra lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.8

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1403527
3/11/14	0913	Drink H2O	CLC27_140311	3-40ml Vial	HgCl2	-001
3/11/14	0932	Drink H2O	CLC18_140311	3-40ml Vial	HgCl2	-002
3/11/14	0937	Drink H2O	ISL_140311	3-40ml Vial	HgCl2	-003
3/11/14	0941	Drink H2O	C1_140311	3-40ml Vial	HgCl2	-004
3/11/14	0942	Drink H2O	C1_140311(DUPE)	3-40ml Vial	HgCl2	-005
3/11/14	0946	Drink H2O	C2_140311	3-40ml Vial	HgCl2	-006
3/11/14	0953	Drink H2O	ESI_140311	3-40ml Vial	HgCl2	-007

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
									X		
									X		
									X		
									X		
									X		
									X		
									X		

Date	Time	Relinquished by	Received by	Date	Time
3/11/14	1430	Laura Montoya			
				03/12/14	0920

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 19, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Monthly Process Center OrderNo.: 1403528

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/12/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 10:09:00 AM
Lab ID: 1403528-001 **Matrix:** AIR
Received Date: 3/12/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Toluene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Ethylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Naphthalene	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
1-Methylnaphthalene	ND	0.40		µg/L	1	3/14/2014 11:22:44 AM	R17343
2-Methylnaphthalene	ND	0.40		µg/L	1	3/14/2014 11:22:44 AM	R17343
Acetone	ND	1.0		µg/L	1	3/14/2014 11:22:44 AM	R17343
Bromobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Bromodichloromethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Bromoform	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Bromomethane	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
2-Butanone	ND	1.0		µg/L	1	3/14/2014 11:22:44 AM	R17343
Carbon disulfide	ND	1.0		µg/L	1	3/14/2014 11:22:44 AM	R17343
Carbon tetrachloride	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Chlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Chloroethane	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
Chloroform	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Chloromethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
2-Chlorotoluene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
4-Chlorotoluene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
cis-1,2-DCE	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
Dibromochloromethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Dibromomethane	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,3-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,4-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Dichlorodifluoromethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1-Dichloroethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1-Dichloroethene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,3-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
2,2-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 10:09:00 AM
Lab ID: 1403528-001 **Matrix:** AIR
Received Date: 3/12/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Hexachlorobutadiene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
2-Hexanone	ND	1.0		µg/L	1	3/14/2014 11:22:44 AM	R17343
Isopropylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
4-Isopropyltoluene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
4-Methyl-2-pentanone	ND	1.0		µg/L	1	3/14/2014 11:22:44 AM	R17343
Methylene chloride	ND	0.30		µg/L	1	3/14/2014 11:22:44 AM	R17343
n-Butylbenzene	ND	0.30		µg/L	1	3/14/2014 11:22:44 AM	R17343
n-Propylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
sec-Butylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Styrene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
tert-Butylbenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Tetrachloroethene (PCE)	0.18	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
trans-1,2-DCE	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1,1-Trichloroethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,1,2-Trichloroethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Trichloroethene (TCE)	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Trichlorofluoromethane	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
1,2,3-Trichloropropane	ND	0.20		µg/L	1	3/14/2014 11:22:44 AM	R17343
Vinyl chloride	ND	0.10		µg/L	1	3/14/2014 11:22:44 AM	R17343
Xylenes, Total	ND	0.15		µg/L	1	3/14/2014 11:22:44 AM	R17343
Surr: Dibromofluoromethane	109	70-130		%REC	1	3/14/2014 11:22:44 AM	R17343
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	3/14/2014 11:22:44 AM	R17343
Surr: Toluene-d8	94.4	70-130		%REC	1	3/14/2014 11:22:44 AM	R17343
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	3/14/2014 11:22:44 AM	R17343

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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 10:07:00 AM
Lab ID: 1403528-002 **Matrix:** AIR
Received Date: 3/12/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Toluene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Ethylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Naphthalene	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
1-Methylnaphthalene	ND	0.40		µg/L	1	3/14/2014 12:22:49 PM	R17343
2-Methylnaphthalene	ND	0.40		µg/L	1	3/14/2014 12:22:49 PM	R17343
Acetone	ND	1.0		µg/L	1	3/14/2014 12:22:49 PM	R17343
Bromobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Bromodichloromethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Bromoform	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Bromomethane	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
2-Butanone	ND	1.0		µg/L	1	3/14/2014 12:22:49 PM	R17343
Carbon disulfide	ND	1.0		µg/L	1	3/14/2014 12:22:49 PM	R17343
Carbon tetrachloride	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Chlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Chloroethane	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
Chloroform	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Chloromethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
2-Chlorotoluene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
4-Chlorotoluene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
cis-1,2-DCE	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
Dibromochloromethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Dibromomethane	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,3-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,4-Dichlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Dichlorodifluoromethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1-Dichloroethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1-Dichloroethene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,3-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
2,2-Dichloropropane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140311
Project: CLC Joint Superfund Monthly Process C
Collection Date: 3/11/2014 10:07:00 AM
Lab ID: 1403528-002 **Matrix:** AIR
Received Date: 3/12/2014 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Hexachlorobutadiene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
2-Hexanone	ND	1.0		µg/L	1	3/14/2014 12:22:49 PM	R17343
Isopropylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
4-Isopropyltoluene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
4-Methyl-2-pentanone	ND	1.0		µg/L	1	3/14/2014 12:22:49 PM	R17343
Methylene chloride	ND	0.30		µg/L	1	3/14/2014 12:22:49 PM	R17343
n-Butylbenzene	ND	0.30		µg/L	1	3/14/2014 12:22:49 PM	R17343
n-Propylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
sec-Butylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Styrene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
tert-Butylbenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Tetrachloroethene (PCE)	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
trans-1,2-DCE	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1,1-Trichloroethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,1,2-Trichloroethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Trichloroethene (TCE)	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Trichlorofluoromethane	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
1,2,3-Trichloropropane	ND	0.20		µg/L	1	3/14/2014 12:22:49 PM	R17343
Vinyl chloride	ND	0.10		µg/L	1	3/14/2014 12:22:49 PM	R17343
Xylenes, Total	ND	0.15		µg/L	1	3/14/2014 12:22:49 PM	R17343
Surr: Dibromofluoromethane	113	70-130		%REC	1	3/14/2014 12:22:49 PM	R17343
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%REC	1	3/14/2014 12:22:49 PM	R17343
Surr: Toluene-d8	93.4	70-130		%REC	1	3/14/2014 12:22:49 PM	R17343
Surr: 4-Bromofluorobenzene	106	70-130		%REC	1	3/14/2014 12:22:49 PM	R17343

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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1403528 RcptNo: 1

Received by/date: LM 03/12/14

Logged By: **Michelle Garcia** 3/12/2014 9:45:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 3/13/2014 9:39:22 AM Michelle Garcia

Reviewed By: AF 03/13/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND MONTHLY PROCESS CENTER

Project #:

Project Manager: Luis Guerra
lguerra@lascruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☐ No

Sample Temperature: N/A

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
11/14	1009	AIR	AS1-140311	1 Tedlar BAG	NONE											X		
11/14	1007	AIR	AS2-140311	1 Tedlar Bag	NONE											X		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/14	1430	Laura Montoya		03/12/14	0915
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra c/o CLC

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 23, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Center Monthly Analysis OrderNo.: 1404548

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/11/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:30:00 AM
Lab ID: 1404548-001
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 6:35:57 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 6:35:57 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 6:35:57 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:30:00 AM
Lab ID: 1404548-001 **Matrix:** AQUEOUS **Received Date:** 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 6:35:57 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 6:35:57 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Tetrachloroethene (PCE)	12	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 6:35:57 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 6:35:57 PM	R17950
Surr: 1,2-Dichloroethane-d4	88.4	70-130		%REC	1	4/11/2014 6:35:57 PM	R17950
Surr: 4-Bromofluorobenzene	93.4	70-130		%REC	1	4/11/2014 6:35:57 PM	R17950
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	4/11/2014 6:35:57 PM	R17950
Surr: Toluene-d8	91.5	70-130		%REC	1	4/11/2014 6:35:57 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:38:00 AM
Lab ID: 1404548-002
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 7:59:50 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 7:59:50 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 7:59:50 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:38:00 AM
Lab ID: 1404548-002
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 7:59:50 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 7:59:50 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Tetrachloroethene (PCE)	20	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 7:59:50 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 7:59:50 PM	R17950
Surr: 1,2-Dichloroethane-d4	89.2	70-130		%REC	1	4/11/2014 7:59:50 PM	R17950
Surr: 4-Bromofluorobenzene	90.4	70-130		%REC	1	4/11/2014 7:59:50 PM	R17950
Surr: Dibromofluoromethane	94.6	70-130		%REC	1	4/11/2014 7:59:50 PM	R17950
Surr: Toluene-d8	91.0	70-130		%REC	1	4/11/2014 7:59:50 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:50:00 AM
Lab ID: 1404548-003 **Matrix:** AQUEOUS **Received Date:** 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 8:27:37 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 8:27:37 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 8:27:37 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 9:50:00 AM
Lab ID: 1404548-003 **Matrix:** AQUEOUS **Received Date:** 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 8:27:37 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 8:27:37 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Tetrachloroethene (PCE)	15	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 8:27:37 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 8:27:37 PM	R17950
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%REC	1	4/11/2014 8:27:37 PM	R17950
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	1	4/11/2014 8:27:37 PM	R17950
Surr: Dibromofluoromethane	94.4	70-130		%REC	1	4/11/2014 8:27:37 PM	R17950
Surr: Toluene-d8	89.9	70-130		%REC	1	4/11/2014 8:27:37 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:00:00 AM
Lab ID: 1404548-004
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 8:55:24 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 8:55:24 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 8:55:24 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:00:00 AM
Lab ID: 1404548-004
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 8:55:24 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 8:55:24 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 8:55:24 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 8:55:24 PM	R17950
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%REC	1	4/11/2014 8:55:24 PM	R17950
Surr: 4-Bromofluorobenzene	92.7	70-130		%REC	1	4/11/2014 8:55:24 PM	R17950
Surr: Dibromofluoromethane	92.6	70-130		%REC	1	4/11/2014 8:55:24 PM	R17950
Surr: Toluene-d8	90.3	70-130		%REC	1	4/11/2014 8:55:24 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:04:00 AM
Lab ID: 1404548-005
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 9:23:23 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 9:23:23 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 9:23:23 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:04:00 AM
Lab ID: 1404548-005 **Matrix:** AQUEOUS **Received Date:** 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 9:23:23 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 9:23:23 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 9:23:23 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 9:23:23 PM	R17950
Surr: 1,2-Dichloroethane-d4	89.9	70-130		%REC	1	4/11/2014 9:23:23 PM	R17950
Surr: 4-Bromofluorobenzene	94.5	70-130		%REC	1	4/11/2014 9:23:23 PM	R17950
Surr: Dibromofluoromethane	95.4	70-130		%REC	1	4/11/2014 9:23:23 PM	R17950
Surr: Toluene-d8	90.5	70-130		%REC	1	4/11/2014 9:23:23 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140409 Dupe
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:05:00 AM
Lab ID: 1404548-006
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Toluene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Naphthalene	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Acetone	ND	10		µg/L	1	4/11/2014 9:51:29 PM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Bromoform	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Bromomethane	ND	3.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
2-Butanone	ND	10		µg/L	1	4/11/2014 9:51:29 PM	R17950
Carbon disulfide	ND	10		µg/L	1	4/11/2014 9:51:29 PM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Chloroethane	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Chloroform	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Chloromethane	ND	3.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Dibromochloromethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140409 Dupe
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:05:00 AM
Lab ID: 1404548-006 **Matrix:** AQUEOUS **Received Date:** 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
2-Hexanone	ND	10		µg/L	1	4/11/2014 9:51:29 PM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/11/2014 9:51:29 PM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Styrene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/11/2014 9:51:29 PM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/11/2014 9:51:29 PM	R17950
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%REC	1	4/11/2014 9:51:29 PM	R17950
Surr: 4-Bromofluorobenzene	95.2	70-130		%REC	1	4/11/2014 9:51:29 PM	R17950
Surr: Dibromofluoromethane	94.3	70-130		%REC	1	4/11/2014 9:51:29 PM	R17950
Surr: Toluene-d8	91.0	70-130		%REC	1	4/11/2014 9:51:29 PM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:15:00 AM
Lab ID: 1404548-007
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Toluene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Ethylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Naphthalene	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1-Methylnaphthalene	ND	4.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
2-Methylnaphthalene	ND	4.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Acetone	ND	10		µg/L	1	4/12/2014 12:38:56 AM	R17950
Bromobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Bromodichloromethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Bromoform	5.9	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Bromomethane	ND	3.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
2-Butanone	ND	10		µg/L	1	4/12/2014 12:38:56 AM	R17950
Carbon disulfide	ND	10		µg/L	1	4/12/2014 12:38:56 AM	R17950
Carbon Tetrachloride	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Chlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Chloroethane	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Chloroform	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Chloromethane	ND	3.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
2-Chlorotoluene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
4-Chlorotoluene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
cis-1,2-DCE	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Dibromochloromethane	3.1	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Dibromomethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1-Dichloroethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1-Dichloroethene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2-Dichloropropane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,3-Dichloropropane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
2,2-Dichloropropane	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140409
Project: CLC Joint Superfund Center Monthly An
Collection Date: 4/9/2014 10:15:00 AM
Lab ID: 1404548-007
Matrix: AQUEOUS
Received Date: 4/11/2014 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Hexachlorobutadiene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
2-Hexanone	ND	10		µg/L	1	4/12/2014 12:38:56 AM	R17950
Isopropylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
4-Isopropyltoluene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
4-Methyl-2-pentanone	ND	10		µg/L	1	4/12/2014 12:38:56 AM	R17950
Methylene Chloride	ND	3.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
n-Butylbenzene	ND	3.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
n-Propylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
sec-Butylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Styrene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
tert-Butylbenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
trans-1,2-DCE	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Trichlorofluoromethane	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Vinyl chloride	ND	1.0		µg/L	1	4/12/2014 12:38:56 AM	R17950
Xylenes, Total	ND	1.5		µg/L	1	4/12/2014 12:38:56 AM	R17950
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%REC	1	4/12/2014 12:38:56 AM	R17950
Surr: 4-Bromofluorobenzene	90.3	70-130		%REC	1	4/12/2014 12:38:56 AM	R17950
Surr: Dibromofluoromethane	93.1	70-130		%REC	1	4/12/2014 12:38:56 AM	R17950
Surr: Toluene-d8	93.2	70-130		%REC	1	4/12/2014 12:38:56 AM	R17950

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404548**

23-Apr-14

Client: City of Las Cruces

Project: CLC Joint Superfund Center Monthly Analysis

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17950**	RunNo: **17950**
Prep Date:	Analysis Date: **4/11/2014**	SeqNo: **517922** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404548**

23-Apr-14

Client: City of Las Cruces

Project: CLC Joint Superfund Center Monthly Analysis

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R17950**	RunNo: **17950**
Prep Date:	Analysis Date: **4/11/2014**	SeqNo: **517922** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.2	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.6	70	130			
Surr: Toluene-d8	9.2		10.00		92.2	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17950**	RunNo: **17950**
Prep Date:	Analysis Date: **4/11/2014**	SeqNo: **517927** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.6	70	130			
Toluene	19	1.0	20.00	0	96.2	80	120			
Chlorobenzene	19	1.0	20.00	0	93.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404548**

23-Apr-14

Client: City of Las Cruces

Project: CLC Joint Superfund Center Monthly Analysis

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R17950**	RunNo: **17950**
Prep Date:	Analysis Date: **4/11/2014**	SeqNo: **517927** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	22	1.0	20.00	0	112	90	143			
Trichloroethene (TCE)	19	1.0	20.00	0	93.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.4	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.0	70	130			
Surr: Toluene-d8	9.2		10.00		92.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces | Work Order Number: 1404548 | RcptNo: 1

Received by/date: MG 04/11/14

Logged By: **Michelle Garcia** 4/11/2014 9:30:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 4/11/2014 10:58:48 AM Michelle Garcia

Reviewed By: MG/CS 04/11/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

Email or Fax#: 575-528-3630

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☑ EDD (Type) EXCEL

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: CLC JOINT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.4

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1404548	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
9/14	9:30	Drink H2O	CLC27_140409	3-40ml Vial	HgCl2	001										X		
9/14	9:38	Drink H2O	CLC18_140409	3-40ml Vial	HgCl2	002										X		
9/14	9:50	Drink H2O	IS1_140409	3-40ml Vial	HgCl2	003										X		
9/14	10:00	Drink H2O	C1_140409	3-40ml Vial	HgCl2	004										X		
9/14	10:04	Drink H2O	C2_140409	3-40ml Vial	HgCl2	005										X		
9/14	10:05	Drink H2O	C2_140409 Dupe	3-40ml Vial	HgCl2	006										X		
9/14	1015	Drink H2O	ES1_140409	3-40ml Vial	HgCl2	007										X		

Date: 9/14 Time: 1400 Relinquished by: Laura Montoya

Received by: [signature] Date: 04/11/14 Time: 0930

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 23, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center Monthly Analysis OrderNo.: 1404561

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/11/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140409
Project: CLC Joint Superfund Process Center Mo
Collection Date: 4/9/2014 10:23:00 AM
Lab ID: 1404561-001 **Matrix:** AIR
Received Date: 4/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Toluene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Ethylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Naphthalene	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
1-Methylnaphthalene	ND	0.40		µg/L	1	4/15/2014 12:48:05 PM	R18016
2-Methylnaphthalene	ND	0.40		µg/L	1	4/15/2014 12:48:05 PM	R18016
Acetone	ND	1.0		µg/L	1	4/15/2014 12:48:05 PM	R18016
Bromobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Bromodichloromethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Bromoform	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Bromomethane	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
2-Butanone	ND	1.0		µg/L	1	4/15/2014 12:48:05 PM	R18016
Carbon disulfide	ND	1.0		µg/L	1	4/15/2014 12:48:05 PM	R18016
Carbon tetrachloride	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Chlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Chloroethane	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
Chloroform	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Chloromethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
2-Chlorotoluene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
4-Chlorotoluene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
cis-1,2-DCE	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
Dibromochloromethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Dibromomethane	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,3-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,4-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Dichlorodifluoromethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1-Dichloroethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1-Dichloroethene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,3-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
2,2-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140409
Project: CLC Joint Superfund Process Center Mo
Collection Date: 4/9/2014 10:23:00 AM
Lab ID: 1404561-001 **Matrix:** AIR
Received Date: 4/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Hexachlorobutadiene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
2-Hexanone	ND	1.0		µg/L	1	4/15/2014 12:48:05 PM	R18016
Isopropylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
4-Isopropyltoluene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
4-Methyl-2-pentanone	ND	1.0		µg/L	1	4/15/2014 12:48:05 PM	R18016
Methylene chloride	ND	0.30		µg/L	1	4/15/2014 12:48:05 PM	R18016
n-Butylbenzene	ND	0.30		µg/L	1	4/15/2014 12:48:05 PM	R18016
n-Propylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
sec-Butylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Styrene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
tert-Butylbenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Tetrachloroethene (PCE)	0.19	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
trans-1,2-DCE	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1,1-Trichloroethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,1,2-Trichloroethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Trichloroethene (TCE)	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Trichlorofluoromethane	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
1,2,3-Trichloropropane	ND	0.20		µg/L	1	4/15/2014 12:48:05 PM	R18016
Vinyl chloride	ND	0.10		µg/L	1	4/15/2014 12:48:05 PM	R18016
Xylenes, Total	ND	0.15		µg/L	1	4/15/2014 12:48:05 PM	R18016
Surr: Dibromofluoromethane	104	70-130		%REC	1	4/15/2014 12:48:05 PM	R18016
Surr: 1,2-Dichloroethane-d4	107	70-130		%REC	1	4/15/2014 12:48:05 PM	R18016
Surr: Toluene-d8	104	70-130		%REC	1	4/15/2014 12:48:05 PM	R18016
Surr: 4-Bromofluorobenzene	92.6	70-130		%REC	1	4/15/2014 12:48:05 PM	R18016

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140409
Project: CLC Joint Superfund Process Center Mo
Collection Date: 4/9/2014 10:25:00 AM
Lab ID: 1404561-002 **Matrix:** AIR
Received Date: 4/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Toluene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Ethylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Naphthalene	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
1-Methylnaphthalene	ND	0.40		µg/L	1	4/15/2014 1:48:42 PM	R18016
2-Methylnaphthalene	ND	0.40		µg/L	1	4/15/2014 1:48:42 PM	R18016
Acetone	ND	1.0		µg/L	1	4/15/2014 1:48:42 PM	R18016
Bromobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Bromodichloromethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Bromoform	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Bromomethane	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
2-Butanone	ND	1.0		µg/L	1	4/15/2014 1:48:42 PM	R18016
Carbon disulfide	ND	1.0		µg/L	1	4/15/2014 1:48:42 PM	R18016
Carbon tetrachloride	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Chlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Chloroethane	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
Chloroform	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Chloromethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
2-Chlorotoluene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
4-Chlorotoluene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
cis-1,2-DCE	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
Dibromochloromethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Dibromomethane	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,3-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,4-Dichlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Dichlorodifluoromethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1-Dichloroethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1-Dichloroethene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,3-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
2,2-Dichloropropane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140409
Project: CLC Joint Superfund Process Center Mo
Collection Date: 4/9/2014 10:25:00 AM
Lab ID: 1404561-002 **Matrix:** AIR
Received Date: 4/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Hexachlorobutadiene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
2-Hexanone	ND	1.0		µg/L	1	4/15/2014 1:48:42 PM	R18016
Isopropylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
4-Isopropyltoluene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
4-Methyl-2-pentanone	ND	1.0		µg/L	1	4/15/2014 1:48:42 PM	R18016
Methylene chloride	ND	0.30		µg/L	1	4/15/2014 1:48:42 PM	R18016
n-Butylbenzene	ND	0.30		µg/L	1	4/15/2014 1:48:42 PM	R18016
n-Propylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
sec-Butylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Styrene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
tert-Butylbenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Tetrachloroethene (PCE)	0.20	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
trans-1,2-DCE	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1,1-Trichloroethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,1,2-Trichloroethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Trichloroethene (TCE)	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Trichlorofluoromethane	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
1,2,3-Trichloropropane	ND	0.20		µg/L	1	4/15/2014 1:48:42 PM	R18016
Vinyl chloride	ND	0.10		µg/L	1	4/15/2014 1:48:42 PM	R18016
Xylenes, Total	ND	0.15		µg/L	1	4/15/2014 1:48:42 PM	R18016
Surr: Dibromofluoromethane	104	70-130		%REC	1	4/15/2014 1:48:42 PM	R18016
Surr: 1,2-Dichloroethane-d4	104	70-130		%REC	1	4/15/2014 1:48:42 PM	R18016
Surr: Toluene-d8	101	70-130		%REC	1	4/15/2014 1:48:42 PM	R18016
Surr: 4-Bromofluorobenzene	91.2	70-130		%REC	1	4/15/2014 1:48:42 PM	R18016

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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1404561 RcptNo: 1

Received by/date: AT 4/11/14

Logged By: Anne Thorne 4/11/2014 8:50:00 AM Anne Thorne

Completed By: Anne Thorne 4/11/2014 Anne Thorne

Reviewed By: 04/11/14

Chain of Custody

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?	UPS		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler:

On Ice: ☐ Yes ☐ No

Sample Temperature:

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1404561	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/9/14	1023	AIR	AS1_140409	1 TEDLAR BAG	None	-001										X						
4/9/14	1025	AIR	AS2_140409	1 TEDLAR BAG	NONE	-002										X						

Date: 4/10/14 Time: 1400 Relinquished by: Laura Montoya

Received by: Date: 04/11/14 Time: 0850

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks: Send Results & INVOICE to Luis Guerra C/o City Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 20, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center - Monthly Analysis OrderNo.: 1405652

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/15/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 10:00:00 AM
Lab ID: 1405652-001 **Matrix:** AIR
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Toluene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Ethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Naphthalene	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
1-Methylnaphthalene	ND	0.40		µg/L	1	5/19/2014 12:31:14 PM	R18711
2-Methylnaphthalene	ND	0.40		µg/L	1	5/19/2014 12:31:14 PM	R18711
Acetone	ND	1.0		µg/L	1	5/19/2014 12:31:14 PM	R18711
Bromobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Bromodichloromethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Bromoform	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Bromomethane	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
2-Butanone	ND	1.0		µg/L	1	5/19/2014 12:31:14 PM	R18711
Carbon disulfide	ND	1.0		µg/L	1	5/19/2014 12:31:14 PM	R18711
Carbon tetrachloride	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Chlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Chloroethane	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
Chloroform	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Chloromethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
2-Chlorotoluene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
4-Chlorotoluene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
cis-1,2-DCE	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
Dibromochloromethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Dibromomethane	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,3-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,4-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Dichlorodifluoromethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1-Dichloroethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1-Dichloroethene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,3-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
2,2-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 10:00:00 AM
Lab ID: 1405652-001 **Matrix:** AIR
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Hexachlorobutadiene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
2-Hexanone	ND	1.0		µg/L	1	5/19/2014 12:31:14 PM	R18711
Isopropylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
4-Isopropyltoluene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
4-Methyl-2-pentanone	ND	1.0		µg/L	1	5/19/2014 12:31:14 PM	R18711
Methylene chloride	ND	0.30		µg/L	1	5/19/2014 12:31:14 PM	R18711
n-Butylbenzene	ND	0.30		µg/L	1	5/19/2014 12:31:14 PM	R18711
n-Propylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
sec-Butylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Styrene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
tert-Butylbenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Tetrachloroethene (PCE)	0.17	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
trans-1,2-DCE	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1,1-Trichloroethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,1,2-Trichloroethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Trichloroethene (TCE)	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Trichlorofluoromethane	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
1,2,3-Trichloropropane	ND	0.20		µg/L	1	5/19/2014 12:31:14 PM	R18711
Vinyl chloride	ND	0.10		µg/L	1	5/19/2014 12:31:14 PM	R18711
Xylenes, Total	ND	0.15		µg/L	1	5/19/2014 12:31:14 PM	R18711
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	5/19/2014 12:31:14 PM	R18711
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	5/19/2014 12:31:14 PM	R18711
Surr: Toluene-d8	94.1	70-130		%REC	1	5/19/2014 12:31:14 PM	R18711
Surr: 4-Bromofluorobenzene	94.3	70-130		%REC	1	5/19/2014 12:31:14 PM	R18711

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 10:02:00 AM
Lab ID: 1405652-002 **Matrix:** AIR
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Toluene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Ethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Naphthalene	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
1-Methylnaphthalene	ND	0.40		µg/L	1	5/19/2014 12:59:11 PM	R18711
2-Methylnaphthalene	ND	0.40		µg/L	1	5/19/2014 12:59:11 PM	R18711
Acetone	ND	1.0		µg/L	1	5/19/2014 12:59:11 PM	R18711
Bromobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Bromodichloromethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Bromoform	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Bromomethane	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
2-Butanone	ND	1.0		µg/L	1	5/19/2014 12:59:11 PM	R18711
Carbon disulfide	ND	1.0		µg/L	1	5/19/2014 12:59:11 PM	R18711
Carbon tetrachloride	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Chlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Chloroethane	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
Chloroform	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Chloromethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
2-Chlorotoluene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
4-Chlorotoluene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
cis-1,2-DCE	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
Dibromochloromethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Dibromomethane	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,3-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,4-Dichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Dichlorodifluoromethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1-Dichloroethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1-Dichloroethene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,3-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
2,2-Dichloropropane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 10:02:00 AM
Lab ID: 1405652-002 **Matrix:** AIR
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Hexachlorobutadiene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
2-Hexanone	ND	1.0		µg/L	1	5/19/2014 12:59:11 PM	R18711
Isopropylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
4-Isopropyltoluene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
4-Methyl-2-pentanone	ND	1.0		µg/L	1	5/19/2014 12:59:11 PM	R18711
Methylene chloride	ND	0.30		µg/L	1	5/19/2014 12:59:11 PM	R18711
n-Butylbenzene	ND	0.30		µg/L	1	5/19/2014 12:59:11 PM	R18711
n-Propylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
sec-Butylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Styrene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
tert-Butylbenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Tetrachloroethene (PCE)	0.16	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
trans-1,2-DCE	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1,1-Trichloroethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,1,2-Trichloroethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Trichloroethene (TCE)	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Trichlorofluoromethane	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
1,2,3-Trichloropropane	ND	0.20		µg/L	1	5/19/2014 12:59:11 PM	R18711
Vinyl chloride	ND	0.10		µg/L	1	5/19/2014 12:59:11 PM	R18711
Xylenes, Total	ND	0.15		µg/L	1	5/19/2014 12:59:11 PM	R18711
Surr: Dibromofluoromethane	94.4	70-130		%REC	1	5/19/2014 12:59:11 PM	R18711
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	5/19/2014 12:59:11 PM	R18711
Surr: Toluene-d8	93.9	70-130		%REC	1	5/19/2014 12:59:11 PM	R18711
Surr: 4-Bromofluorobenzene	92.7	70-130		%REC	1	5/19/2014 12:59:11 PM	R18711

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1405652** RcptNo: **1**

Received by/date: CS 05/15/14

Logged By: **Celina Sessa** **5/15/2014 8:38:00 AM** Celina Sessa

Completed By: **Celina Sessa** **5/15/2014 9:12:26 AM** Celina Sessa

Reviewed By: 05/15/14

Chain of Custody

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? FedEx

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
6. Sample(s) in proper container(s)? **Not required** 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 ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	19.4	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CLC JOINT SUPERFUND PROCESS CENTER-MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: 19.4°

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1405052	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
5/14/14	10:00	AIR	AS1_140514	1 TEDLAR BAG	NONE	-001										X		
5/14/14	10:02	AIR	AS2_140514	1 TEDLAR BAG	NONE	-002										X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/14/14	12:00	Laura Montoya	Celina Sim	05/15/14	8:38
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
C/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 22, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: CLC Joint Superfund Process Center - Monthly Analysis OrderNo.: 1405653

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/15/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:12:00 AM
Lab ID: 1405653-001 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Toluene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Naphthalene	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Acetone	ND	10		µg/L	1	5/21/2014 10:22:33 PM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Bromoform	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Bromomethane	ND	3.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
2-Butanone	ND	10		µg/L	1	5/21/2014 10:22:33 PM	R18782
Carbon disulfide	ND	10		µg/L	1	5/21/2014 10:22:33 PM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Chloroethane	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Chloroform	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Chloromethane	ND	3.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:12:00 AM
Lab ID: 1405653-001 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
2-Hexanone	ND	10		µg/L	1	5/21/2014 10:22:33 PM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/21/2014 10:22:33 PM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Styrene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Tetrachloroethene (PCE)	14	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/21/2014 10:22:33 PM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/21/2014 10:22:33 PM	R18782
Surr: 1,2-Dichloroethane-d4	112	70-130		%REC	1	5/21/2014 10:22:33 PM	R18782
Surr: 4-Bromofluorobenzene	84.5	70-130		%REC	1	5/21/2014 10:22:33 PM	R18782
Surr: Dibromofluoromethane	85.5	70-130		%REC	1	5/21/2014 10:22:33 PM	R18782
Surr: Toluene-d8	90.5	70-130		%REC	1	5/21/2014 10:22:33 PM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:31:00 AM
Lab ID: 1405653-002 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 1:01:57 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 1:01:57 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 1:01:57 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:31:00 AM
Lab ID: 1405653-002 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 1:01:57 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 1:01:57 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Tetrachloroethene (PCE)	27	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 1:01:57 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 1:01:57 AM	R18782
Surr: 1,2-Dichloroethane-d4	116	70-130		%REC	1	5/22/2014 1:01:57 AM	R18782
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	5/22/2014 1:01:57 AM	R18782
Surr: Dibromofluoromethane	82.8	70-130		%REC	1	5/22/2014 1:01:57 AM	R18782
Surr: Toluene-d8	89.0	70-130		%REC	1	5/22/2014 1:01:57 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:40:00 AM
Lab ID: 1405653-003 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 1:33:58 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 1:33:58 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 1:33:58 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:40:00 AM
Lab ID: 1405653-003 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 1:33:58 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 1:33:58 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Tetrachloroethene (PCE)	16	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 1:33:58 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 1:33:58 AM	R18782
Surr: 1,2-Dichloroethane-d4	121	70-130		%REC	1	5/22/2014 1:33:58 AM	R18782
Surr: 4-Bromofluorobenzene	85.2	70-130		%REC	1	5/22/2014 1:33:58 AM	R18782
Surr: Dibromofluoromethane	85.3	70-130		%REC	1	5/22/2014 1:33:58 AM	R18782
Surr: Toluene-d8	86.0	70-130		%REC	1	5/22/2014 1:33:58 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:45:00 AM
Lab ID: 1405653-004
Matrix: AQUEOUS
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 2:05:46 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 2:05:46 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 2:05:46 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:45:00 AM
Lab ID: 1405653-004
Matrix: AQUEOUS
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 2:05:46 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 2:05:46 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 2:05:46 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 2:05:46 AM	R18782
Surr: 1,2-Dichloroethane-d4	118	70-130		%REC	1	5/22/2014 2:05:46 AM	R18782
Surr: 4-Bromofluorobenzene	86.6	70-130		%REC	1	5/22/2014 2:05:46 AM	R18782
Surr: Dibromofluoromethane	82.8	70-130		%REC	1	5/22/2014 2:05:46 AM	R18782
Surr: Toluene-d8	89.6	70-130		%REC	1	5/22/2014 2:05:46 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:49:00 AM
Lab ID: 1405653-005 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 3:41:22 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 3:41:22 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 3:41:22 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:49:00 AM
Lab ID: 1405653-005 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 3:41:22 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 3:41:22 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 3:41:22 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 3:41:22 AM	R18782
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	5/22/2014 3:41:22 AM	R18782
Surr: 4-Bromofluorobenzene	88.1	70-130		%REC	1	5/22/2014 3:41:22 AM	R18782
Surr: Dibromofluoromethane	84.2	70-130		%REC	1	5/22/2014 3:41:22 AM	R18782
Surr: Toluene-d8	87.2	70-130		%REC	1	5/22/2014 3:41:22 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:54:00 AM
Lab ID: 1405653-006 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 4:13:27 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Bromodichloromethane	2.3	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Bromoform	4.1	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 4:13:27 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 4:13:27 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Chloroform	1.2	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Dibromochloromethane	4.3	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140514
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:54:00 AM
Lab ID: 1405653-006 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 4:13:27 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 4:13:27 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 4:13:27 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 4:13:27 AM	R18782
Surr: 1,2-Dichloroethane-d4	124	70-130		%REC	1	5/22/2014 4:13:27 AM	R18782
Surr: 4-Bromofluorobenzene	90.4	70-130		%REC	1	5/22/2014 4:13:27 AM	R18782
Surr: Dibromofluoromethane	87.6	70-130		%REC	1	5/22/2014 4:13:27 AM	R18782
Surr: Toluene-d8	90.2	70-130		%REC	1	5/22/2014 4:13:27 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140514(DUPE)
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:32:00 AM
Lab ID: 1405653-007 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 4:45:13 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 4:45:13 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 4:45:13 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140514(DUPE)
Project: CLC Joint Superfund Process Center - M
Collection Date: 5/14/2014 9:32:00 AM
Lab ID: 1405653-007 **Matrix:** AQUEOUS **Received Date:** 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 4:45:13 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 4:45:13 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Tetrachloroethene (PCE)	29	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 4:45:13 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 4:45:13 AM	R18782
Surr: 1,2-Dichloroethane-d4	119	70-130		%REC	1	5/22/2014 4:45:13 AM	R18782
Surr: 4-Bromofluorobenzene	87.0	70-130		%REC	1	5/22/2014 4:45:13 AM	R18782
Surr: Dibromofluoromethane	84.7	70-130		%REC	1	5/22/2014 4:45:13 AM	R18782
Surr: Toluene-d8	91.0	70-130		%REC	1	5/22/2014 4:45:13 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: TRIP BLANK
Project: CLC Joint Superfund Process Center - M
Collection Date:
Lab ID: 1405653-008
Matrix: AQUEOUS
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Toluene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Ethylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Naphthalene	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
2-Methylnaphthalene	ND	4.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Acetone	ND	10		µg/L	1	5/22/2014 5:16:59 AM	R18782
Bromobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Bromodichloromethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Bromoform	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Bromomethane	ND	3.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
2-Butanone	ND	10		µg/L	1	5/22/2014 5:16:59 AM	R18782
Carbon disulfide	ND	10		µg/L	1	5/22/2014 5:16:59 AM	R18782
Carbon Tetrachloride	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Chlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Chloroethane	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Chloroform	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Chloromethane	ND	3.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
2-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
4-Chlorotoluene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
cis-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Dibromochloromethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Dibromomethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,3-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Dichlorodifluoromethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1-Dichloroethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1-Dichloroethene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,3-Dichloropropane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
2,2-Dichloropropane	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: TRIP BLANK
Project: CLC Joint Superfund Process Center - M
Collection Date:
Lab ID: 1405653-008
Matrix: AQUEOUS
Received Date: 5/15/2014 8:38:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**	
1,1-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Hexachlorobutadiene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
2-Hexanone	ND	10		µg/L	1	5/22/2014 5:16:59 AM	R18782
Isopropylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
4-Isopropyltoluene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
4-Methyl-2-pentanone	ND	10		µg/L	1	5/22/2014 5:16:59 AM	R18782
Methylene Chloride	ND	3.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
n-Butylbenzene	ND	3.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
n-Propylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
sec-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Styrene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
tert-Butylbenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
trans-1,2-DCE	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Trichlorofluoromethane	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
1,2,3-Trichloropropane	ND	2.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Vinyl chloride	ND	1.0		µg/L	1	5/22/2014 5:16:59 AM	R18782
Xylenes, Total	ND	1.5		µg/L	1	5/22/2014 5:16:59 AM	R18782
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%REC	1	5/22/2014 5:16:59 AM	R18782
Surr: 4-Bromofluorobenzene	88.6	70-130		%REC	1	5/22/2014 5:16:59 AM	R18782
Surr: Dibromofluoromethane	83.3	70-130		%REC	1	5/22/2014 5:16:59 AM	R18782
Surr: Toluene-d8	87.8	70-130		%REC	1	5/22/2014 5:16:59 AM	R18782

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405653**

22-May-14

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center - Monthly

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**	
Client ID: **PBW**	Batch ID: **R18782**	RunNo: **18782**	
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542327**	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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405653**

22-May-14

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center - Monthly

Sample ID **5ml-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542327** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	12		10.00		118	70	130			
Surr: 4-Bromofluorobenzene	9.1		10.00		91.1	70	130			
Surr: Dibromofluoromethane	8.4		10.00		83.6	70	130			
Surr: Toluene-d8	9.0		10.00		90.4	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542329** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	22	1.0	20.00	0	110	80	120			
Chlorobenzene	22	1.0	20.00	0	108	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405653**

22-May-14

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center - Monthly

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542329** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	23	1.0	20.00	0	114	90	143			
Trichloroethene (TCE)	18	1.0	20.00	0	90.8	70	130			
Surr: 1,2-Dichloroethane-d4	12		10.00		119	70	130			
Surr: 4-Bromofluorobenzene	8.7		10.00		86.5	70	130			
Surr: Dibromofluoromethane	8.3		10.00		83.1	70	130			
Surr: Toluene-d8	8.4		10.00		84.4	70	130			

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542350** 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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405653**

22-May-14

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center - Monthly

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542350** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		114	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405653**

22-May-14

Client: City of Las Cruces

Project: CLC Joint Superfund Process Center - Monthly

Sample ID **b2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542350** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	8.8		10.00		88.4	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.1	70	130			
Surr: Toluene-d8	8.8		10.00		88.2	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R18782**	RunNo: **18782**
Prep Date:	Analysis Date: **5/21/2014**	SeqNo: **542352** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	22	1.0	20.00	0	108	80	120			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	113	90	143			
Trichloroethene (TCE)	19	1.0	20.00	0	93.2	70	130			
Surr: 1,2-Dichloroethane-d4	12		10.00		120	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.1	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.4	70	130			
Surr: Toluene-d8	8.4		10.00		84.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **City of Las Cruces** Work Order Number: **1405653** RcptNo: 1

Received by/date: CS 05/15/14

Logged By: **Celina Sessa** **5/14/2014 8:38:00 AM** Celina Sessa

Completed By: **Celina Sessa** **5/15/2014 9:19:55 AM** Celina Sessa

Reviewed By: 05/15/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: CLC JOINT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0°

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1405653	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
~~5/14/14~~																						
5/14/14	9:12	Drink H2O	CLC27_140514	3-40ml Vial		-001										X						
5/14/14	9:31	Drink H2O	CLC18_140514	3-40ml Vial		-002										X						
5/14/14	9:40	Drink H2O	IS1_140514	3-40ml Vial		-003										X						
5/14/14	9:45	Drink H2O	C1_140514	3-40ml Vial		-004										X						
5/14/14	9:49	Drink H2O	C2_140514	3-40ml Vial		-005										X						
5/14/14	9:54	Drink H2O	ES1_140514	3-40ml Vial		-006										X						
5/14/14	9:32	Drink H2O	CLC18_140514 (DUP)	3-40ml Vial		-007										X						
		Lab H2O	TRIP BLANK	2-40ml Vial		-008										X						

Date	Time	Relinquished by	Received by	Date	Time
5/14/14		Laura Montoya	Celia Sanchez	05/15/14	8:38
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 11, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: Griggs/Walnut Superfund Process Center Monthly Analysis OrderNo.: 1406298

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/6/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:18:00 AM
Lab ID: 1406298-001 **Matrix:** AIR
Received Date: 6/6/2014 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Toluene	0.20	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Ethylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Naphthalene	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
1-Methylnaphthalene	ND	0.40		µg/L	1	6/6/2014 10:46:44 AM	R19092
2-Methylnaphthalene	ND	0.40		µg/L	1	6/6/2014 10:46:44 AM	R19092
Acetone	ND	1.0		µg/L	1	6/6/2014 10:46:44 AM	R19092
Bromobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Bromodichloromethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Bromoform	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Bromomethane	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
2-Butanone	ND	1.0		µg/L	1	6/6/2014 10:46:44 AM	R19092
Carbon disulfide	ND	1.0		µg/L	1	6/6/2014 10:46:44 AM	R19092
Carbon tetrachloride	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Chlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Chloroethane	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
Chloroform	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Chloromethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
2-Chlorotoluene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
4-Chlorotoluene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
cis-1,2-DCE	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
Dibromochloromethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Dibromomethane	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,3-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,4-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Dichlorodifluoromethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1-Dichloroethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1-Dichloroethene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,3-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
2,2-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:18:00 AM
Lab ID: 1406298-001 **Matrix:** AIR
Received Date: 6/6/2014 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Hexachlorobutadiene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
2-Hexanone	ND	1.0		µg/L	1	6/6/2014 10:46:44 AM	R19092
Isopropylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
4-Isopropyltoluene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
4-Methyl-2-pentanone	ND	1.0		µg/L	1	6/6/2014 10:46:44 AM	R19092
Methylene chloride	ND	0.30		µg/L	1	6/6/2014 10:46:44 AM	R19092
n-Butylbenzene	ND	0.30		µg/L	1	6/6/2014 10:46:44 AM	R19092
n-Propylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
sec-Butylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Styrene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
tert-Butylbenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Tetrachloroethene (PCE)	0.25	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
trans-1,2-DCE	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1,1-Trichloroethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,1,2-Trichloroethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Trichloroethene (TCE)	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Trichlorofluoromethane	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
1,2,3-Trichloropropane	ND	0.20		µg/L	1	6/6/2014 10:46:44 AM	R19092
Vinyl chloride	ND	0.10		µg/L	1	6/6/2014 10:46:44 AM	R19092
Xylenes, Total	ND	0.15		µg/L	1	6/6/2014 10:46:44 AM	R19092
Surr: Dibromofluoromethane	96.9	70-130		%REC	1	6/6/2014 10:46:44 AM	R19092
Surr: 1,2-Dichloroethane-d4	93.4	70-130		%REC	1	6/6/2014 10:46:44 AM	R19092
Surr: Toluene-d8	91.7	70-130		%REC	1	6/6/2014 10:46:44 AM	R19092
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	6/6/2014 10:46:44 AM	R19092

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:20:00 AM
Lab ID: 1406298-002 **Matrix:** AIR
Received Date: 6/6/2014 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Toluene	0.18	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Ethylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Naphthalene	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
1-Methylnaphthalene	ND	0.40		µg/L	1	6/6/2014 11:14:42 AM	R19092
2-Methylnaphthalene	ND	0.40		µg/L	1	6/6/2014 11:14:42 AM	R19092
Acetone	ND	1.0		µg/L	1	6/6/2014 11:14:42 AM	R19092
Bromobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Bromodichloromethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Bromoform	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Bromomethane	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
2-Butanone	ND	1.0		µg/L	1	6/6/2014 11:14:42 AM	R19092
Carbon disulfide	ND	1.0		µg/L	1	6/6/2014 11:14:42 AM	R19092
Carbon tetrachloride	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Chlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Chloroethane	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
Chloroform	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Chloromethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
2-Chlorotoluene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
4-Chlorotoluene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
cis-1,2-DCE	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
Dibromochloromethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Dibromomethane	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,3-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,4-Dichlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Dichlorodifluoromethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1-Dichloroethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1-Dichloroethene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,3-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
2,2-Dichloropropane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:20:00 AM
Lab ID: 1406298-002 **Matrix:** AIR
Received Date: 6/6/2014 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Hexachlorobutadiene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
2-Hexanone	ND	1.0		µg/L	1	6/6/2014 11:14:42 AM	R19092
Isopropylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
4-Isopropyltoluene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
4-Methyl-2-pentanone	ND	1.0		µg/L	1	6/6/2014 11:14:42 AM	R19092
Methylene chloride	ND	0.30		µg/L	1	6/6/2014 11:14:42 AM	R19092
n-Butylbenzene	ND	0.30		µg/L	1	6/6/2014 11:14:42 AM	R19092
n-Propylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
sec-Butylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Styrene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
tert-Butylbenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Tetrachloroethene (PCE)	0.24	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
trans-1,2-DCE	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1,1-Trichloroethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,1,2-Trichloroethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Trichloroethene (TCE)	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Trichlorofluoromethane	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
1,2,3-Trichloropropane	ND	0.20		µg/L	1	6/6/2014 11:14:42 AM	R19092
Vinyl chloride	ND	0.10		µg/L	1	6/6/2014 11:14:42 AM	R19092
Xylenes, Total	ND	0.15		µg/L	1	6/6/2014 11:14:42 AM	R19092
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	6/6/2014 11:14:42 AM	R19092
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%REC	1	6/6/2014 11:14:42 AM	R19092
Surr: Toluene-d8	91.9	70-130		%REC	1	6/6/2014 11:14:42 AM	R19092
Surr: 4-Bromofluorobenzene	97.3	70-130		%REC	1	6/6/2014 11:14:42 AM	R19092

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1406298 RcptNo: 1

Received by/date: AT 06/06/14

Logged By: Anne Thorne 6/6/2014 8:55:00 AM Anne Thorne

Completed By: Anne Thorne 6/6/2014 Anne Thorne

Reviewed By: CS 06/06/14

Chain of Custody

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? Client

Log In

4. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☐ NA ☑
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 ☑ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
11. Were any sample containers received broken? Yes ☐ No ☑
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
14. Is it clear what analyses were requested? Yes ☑ No ☐
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

Email or Fax#: 575-528-3630

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GRIGGS/WALNUT SUPER-FUND PROCESS Center MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: LAURA MONTOYA

On Ice: ☑ Yes ☐ No

Sample Temperature:

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1406298	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
5/14	10:18	AIR	AS1_140605	1 Tedlar BAG	NONE	-001										X						
5/14	10:20	AIR	AS2-140605	1 Tedlar BAG	NONE	-002										X						

Date	Time	Relinquished by:	Received by:	Date	Time
5/14	1400	Laura Montoya		06/06/14	0855

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 11, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX

RE: Griggs/Walnut Superfund Process Center Monthly Analysis OrderNo.: 1406301

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/6/2014 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 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 Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC 27-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:13:00 AM
Lab ID: 1406301-001
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Toluene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Naphthalene	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Acetone	ND	10		µg/L	1	6/6/2014 8:44:52 PM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Bromoform	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Bromomethane	ND	3.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
2-Butanone	ND	10		µg/L	1	6/6/2014 8:44:52 PM	R19118
Carbon disulfide	ND	10		µg/L	1	6/6/2014 8:44:52 PM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Chloroethane	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Chloroform	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Chloromethane	ND	3.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC 27-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:13:00 AM
Lab ID: 1406301-001
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
2-Hexanone	ND	10		µg/L	1	6/6/2014 8:44:52 PM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/6/2014 8:44:52 PM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Styrene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Tetrachloroethene (PCE)	9.9	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/6/2014 8:44:52 PM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/6/2014 8:44:52 PM	R19118
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	1	6/6/2014 8:44:52 PM	R19118
Surr: 4-Bromofluorobenzene	86.4	70-130		%REC	1	6/6/2014 8:44:52 PM	R19118
Surr: Dibromofluoromethane	89.3	70-130		%REC	1	6/6/2014 8:44:52 PM	R19118
Surr: Toluene-d8	94.9	70-130		%REC	1	6/6/2014 8:44:52 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC 18-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:31:00 AM
Lab ID: 1406301-002
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Toluene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Naphthalene	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Acetone	ND	10		µg/L	1	6/6/2014 9:14:29 PM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Bromoform	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Bromomethane	ND	3.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
2-Butanone	ND	10		µg/L	1	6/6/2014 9:14:29 PM	R19118
Carbon disulfide	ND	10		µg/L	1	6/6/2014 9:14:29 PM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Chloroethane	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Chloroform	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Chloromethane	ND	3.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC 18-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:31:00 AM
Lab ID: 1406301-002
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
2-Hexanone	ND	10		µg/L	1	6/6/2014 9:14:29 PM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/6/2014 9:14:29 PM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Styrene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Tetrachloroethene (PCE)	22	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/6/2014 9:14:29 PM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/6/2014 9:14:29 PM	R19118
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	6/6/2014 9:14:29 PM	R19118
Surr: 4-Bromofluorobenzene	82.0	70-130		%REC	1	6/6/2014 9:14:29 PM	R19118
Surr: Dibromofluoromethane	87.9	70-130		%REC	1	6/6/2014 9:14:29 PM	R19118
Surr: Toluene-d8	92.3	70-130		%REC	1	6/6/2014 9:14:29 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:37:00 AM
Lab ID: 1406301-003 **Matrix:** AQUEOUS **Received Date:** 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Toluene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Naphthalene	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Acetone	ND	10		µg/L	1	6/6/2014 9:43:48 PM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Bromoform	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Bromomethane	ND	3.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
2-Butanone	ND	10		µg/L	1	6/6/2014 9:43:48 PM	R19118
Carbon disulfide	ND	10		µg/L	1	6/6/2014 9:43:48 PM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Chloroethane	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Chloroform	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Chloromethane	ND	3.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 9:37:00 AM
Lab ID: 1406301-003
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
2-Hexanone	ND	10		µg/L	1	6/6/2014 9:43:48 PM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/6/2014 9:43:48 PM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Styrene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Tetrachloroethene (PCE)	7.6	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/6/2014 9:43:48 PM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/6/2014 9:43:48 PM	R19118
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	6/6/2014 9:43:48 PM	R19118
Surr: 4-Bromofluorobenzene	78.1	70-130		%REC	1	6/6/2014 9:43:48 PM	R19118
Surr: Dibromofluoromethane	88.2	70-130		%REC	1	6/6/2014 9:43:48 PM	R19118
Surr: Toluene-d8	95.7	70-130		%REC	1	6/6/2014 9:43:48 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:00:00 AM
Lab ID: 1406301-004
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Toluene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Naphthalene	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Acetone	ND	10		µg/L	1	6/6/2014 11:41:52 PM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Bromoform	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Bromomethane	ND	3.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
2-Butanone	ND	10		µg/L	1	6/6/2014 11:41:52 PM	R19118
Carbon disulfide	ND	10		µg/L	1	6/6/2014 11:41:52 PM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Chloroethane	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Chloroform	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Chloromethane	ND	3.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:00:00 AM
Lab ID: 1406301-004
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
2-Hexanone	ND	10		µg/L	1	6/6/2014 11:41:52 PM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/6/2014 11:41:52 PM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Styrene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/6/2014 11:41:52 PM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/6/2014 11:41:52 PM	R19118
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	6/6/2014 11:41:52 PM	R19118
Surr: 4-Bromofluorobenzene	82.6	70-130		%REC	1	6/6/2014 11:41:52 PM	R19118
Surr: Dibromofluoromethane	93.2	70-130		%REC	1	6/6/2014 11:41:52 PM	R19118
Surr: Toluene-d8	104	70-130		%REC	1	6/6/2014 11:41:52 PM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:04:00 AM
Lab ID: 1406301-005
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Toluene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Naphthalene	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Acetone	ND	10		µg/L	1	6/7/2014 12:11:25 AM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Bromoform	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Bromomethane	ND	3.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
2-Butanone	ND	10		µg/L	1	6/7/2014 12:11:25 AM	R19118
Carbon disulfide	ND	10		µg/L	1	6/7/2014 12:11:25 AM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Chloroethane	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Chloroform	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Chloromethane	ND	3.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:04:00 AM
Lab ID: 1406301-005
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
2-Hexanone	ND	10		µg/L	1	6/7/2014 12:11:25 AM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/7/2014 12:11:25 AM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Styrene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/7/2014 12:11:25 AM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/7/2014 12:11:25 AM	R19118
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	1	6/7/2014 12:11:25 AM	R19118
Surr: 4-Bromofluorobenzene	81.3	70-130		%REC	1	6/7/2014 12:11:25 AM	R19118
Surr: Dibromofluoromethane	89.3	70-130		%REC	1	6/7/2014 12:11:25 AM	R19118
Surr: Toluene-d8	101	70-130		%REC	1	6/7/2014 12:11:25 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:09:00 AM
Lab ID: 1406301-006
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Toluene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Naphthalene	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Acetone	ND	10		µg/L	1	6/7/2014 12:40:57 AM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Bromodichloromethane	1.0	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Bromoform	5.3	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Bromomethane	ND	3.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
2-Butanone	ND	10		µg/L	1	6/7/2014 12:40:57 AM	R19118
Carbon disulfide	ND	10		µg/L	1	6/7/2014 12:40:57 AM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Chloroethane	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Chloroform	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Chloromethane	ND	3.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Dibromochloromethane	2.9	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-140605
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:09:00 AM
Lab ID: 1406301-006 **Matrix:** AQUEOUS **Received Date:** 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
2-Hexanone	ND	10		µg/L	1	6/7/2014 12:40:57 AM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/7/2014 12:40:57 AM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Styrene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/7/2014 12:40:57 AM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/7/2014 12:40:57 AM	R19118
Surr: 1,2-Dichloroethane-d4	92.1	70-130		%REC	1	6/7/2014 12:40:57 AM	R19118
Surr: 4-Bromofluorobenzene	79.5	70-130		%REC	1	6/7/2014 12:40:57 AM	R19118
Surr: Dibromofluoromethane	91.3	70-130		%REC	1	6/7/2014 12:40:57 AM	R19118
Surr: Toluene-d8	96.5	70-130		%REC	1	6/7/2014 12:40:57 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-140605-DUPE
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:10:00 AM
Lab ID: 1406301-007 **Matrix:** AQUEOUS **Received Date:** 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Toluene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Naphthalene	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Acetone	ND	10		µg/L	1	6/7/2014 1:10:26 AM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Bromoform	5.9	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Bromomethane	ND	3.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
2-Butanone	ND	10		µg/L	1	6/7/2014 1:10:26 AM	R19118
Carbon disulfide	ND	10		µg/L	1	6/7/2014 1:10:26 AM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Chloroethane	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Chloroform	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Chloromethane	ND	3.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Dibromochloromethane	2.7	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1-140605-DUPE
Project: Griggs/Walnut Superfund Process Center
Collection Date: 6/5/2014 10:10:00 AM
Lab ID: 1406301-007 **Matrix:** AQUEOUS **Received Date:** 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
2-Hexanone	ND	10		µg/L	1	6/7/2014 1:10:26 AM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/7/2014 1:10:26 AM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Styrene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/7/2014 1:10:26 AM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/7/2014 1:10:26 AM	R19118
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%REC	1	6/7/2014 1:10:26 AM	R19118
Surr: 4-Bromofluorobenzene	83.7	70-130		%REC	1	6/7/2014 1:10:26 AM	R19118
Surr: Dibromofluoromethane	88.7	70-130		%REC	1	6/7/2014 1:10:26 AM	R19118
Surr: Toluene-d8	99.8	70-130		%REC	1	6/7/2014 1:10:26 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Hall Env Trip Blank
Project: Griggs/Walnut Superfund Process Center
Collection Date:
Lab ID: 1406301-008
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Toluene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Ethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Naphthalene	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
2-Methylnaphthalene	ND	4.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Acetone	ND	10		µg/L	1	6/7/2014 1:39:54 AM	R19118
Bromobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Bromodichloromethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Bromoform	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Bromomethane	ND	3.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
2-Butanone	ND	10		µg/L	1	6/7/2014 1:39:54 AM	R19118
Carbon disulfide	ND	10		µg/L	1	6/7/2014 1:39:54 AM	R19118
Carbon Tetrachloride	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Chlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Chloroethane	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Chloroform	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Chloromethane	ND	3.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
2-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
4-Chlorotoluene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
cis-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Dibromochloromethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Dibromomethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1-Dichloroethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1-Dichloroethene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,3-Dichloropropane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
2,2-Dichloropropane	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: Hall Env Trip Blank
Project: Griggs/Walnut Superfund Process Center
Collection Date:
Lab ID: 1406301-008
Matrix: AQUEOUS
Received Date: 6/6/2014 8:51:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Hexachlorobutadiene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
2-Hexanone	ND	10		µg/L	1	6/7/2014 1:39:54 AM	R19118
Isopropylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
4-Isopropyltoluene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
4-Methyl-2-pentanone	ND	10		µg/L	1	6/7/2014 1:39:54 AM	R19118
Methylene Chloride	ND	3.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
n-Butylbenzene	ND	3.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
n-Propylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
sec-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Styrene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
tert-Butylbenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
trans-1,2-DCE	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Trichlorofluoromethane	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Vinyl chloride	ND	1.0		µg/L	1	6/7/2014 1:39:54 AM	R19118
Xylenes, Total	ND	1.5		µg/L	1	6/7/2014 1:39:54 AM	R19118
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%REC	1	6/7/2014 1:39:54 AM	R19118
Surr: 4-Bromofluorobenzene	79.1	70-130		%REC	1	6/7/2014 1:39:54 AM	R19118
Surr: Dibromofluoromethane	89.4	70-130		%REC	1	6/7/2014 1:39:54 AM	R19118
Surr: Toluene-d8	93.9	70-130		%REC	1	6/7/2014 1:39:54 AM	R19118

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406301**

11-Jun-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19118**	RunNo: **19118**
Prep Date:	Analysis Date: **6/6/2014**	SeqNo: **552709** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406301**

11-Jun-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19118**	RunNo: **19118**
Prep Date:	Analysis Date: **6/6/2014**	SeqNo: **552709** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.7	70	130			
Surr: 4-Bromofluorobenzene	8.6		10.00		85.9	70	130			
Surr: Dibromofluoromethane	8.9		10.00		89.3	70	130			
Surr: Toluene-d8	11		10.00		105	70	130			

Sample ID **100ng icv**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R19118**	RunNo: **19118**
Prep Date:	Analysis Date: **6/6/2014**	SeqNo: **552711** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.6	70	130			
Toluene	18	1.0	20.00	0	91.5	80	120			
Ethylbenzene	19	1.0	20.00	0	97.5	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406301**

11-Jun-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **100ng icv**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R19118**	RunNo: **19118**
Prep Date:	Analysis Date: **6/6/2014**	SeqNo: **552711** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	36	1.0	40.00	0	90.7	70	130			
1,2,4-Trimethylbenzene	23	1.0	20.00	0	114	70	130			
1,3,5-Trimethylbenzene	23	1.0	20.00	0	113	70	130			
1,2-Dichloroethane (EDC)	20	1.0	20.00	0	98.4	70	130			
1,2-Dibromoethane (EDB)	19	1.0	20.00	0	92.6	70	130			
Naphthalene	20	2.0	20.00	0	98.9	70	130			
1-Methylnaphthalene	16	4.0	20.00	0	77.6	60	140			
2-Methylnaphthalene	16	4.0	20.00	0	80.1	60	140			
Acetone	37	10	40.00	0	92.4	60	140			
Bromobenzene	22	1.0	20.00	0	111	70	130			
Bromodichloromethane	21	1.0	20.00	0	106	70	130			
Bromoform	22	1.0	20.00	0	111	64.1	132			
Bromomethane	21	3.0	20.00	0	106	61.5	134			
2-Butanone	31	10	40.00	0	78.4	60	140			
Carbon disulfide	38	10	40.00	0	94.8	60	140			
Carbon Tetrachloride	19	1.0	20.00	0	94.3	70	130			
Chlorobenzene	19	1.0	20.00	0	95.9	70	130			
Chloroethane	19	2.0	20.00	0	95.3	70	130			
Chloroform	18	1.0	20.00	0	92.2	75.6	123			
Chloromethane	19	3.0	20.00	0	93.1	53	140			
2-Chlorotoluene	23	1.0	20.00	0	113	70	130			
4-Chlorotoluene	19	1.0	20.00	0	95.7	70	130			
cis-1,2-DCE	19	1.0	20.00	0	95.6	70	130			
cis-1,3-Dichloropropene	17	1.0	20.00	0	85.7	70	130			
1,2-Dibromo-3-chloropropane	21	2.0	20.00	0	103	60.7	131			
Dibromochloromethane	19	1.0	20.00	0	94.8	70	130			
Dibromomethane	19	1.0	20.00	0	93.8	70	130			
1,2-Dichlorobenzene	21	1.0	20.00	0	105	70	130			
1,3-Dichlorobenzene	21	1.0	20.00	0	107	70	130			
1,4-Dichlorobenzene	22	1.0	20.00	0	111	70	130			
Dichlorodifluoromethane	22	1.0	20.00	0	110	68	142			
1,1-Dichloroethane	19	1.0	20.00	0	93.0	70	130			
1,1-Dichloroethene	17	1.0	20.00	0	86.6	78.1	129			
1,2-Dichloropropane	21	1.0	20.00	0	106	80	120			
1,3-Dichloropropane	18	1.0	20.00	0	91.2	70	130			
2,2-Dichloropropane	21	2.0	20.00	0	103	70	130			
1,1-Dichloropropene	19	1.0	20.00	0	96.7	70	130			
Hexachlorobutadiene	21	1.0	20.00	0	103	62.9	136			
2-Hexanone	37	10	40.00	0	91.3	60	140			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406301**

11-Jun-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **100ng icv**	SampType: **LCS4**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **BatchQC**	Batch ID: **R19118**	RunNo: **19118**
Prep Date:	Analysis Date: **6/6/2014**	SeqNo: **552711** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isopropylbenzene	17	1.0	20.00	0	86.2	70	130			
4-Isopropyltoluene	21	1.0	20.00	0	105	70	130			
4-Methyl-2-pentanone	37	10	40.00	0	91.9	60	140			
Methylene Chloride	21	3.0	20.00	0	104	70	130			
n-Butylbenzene	22	3.0	20.00	0	110	70	130			
n-Propylbenzene	22	1.0	20.00	0	111	70	130			
sec-Butylbenzene	19	1.0	20.00	0	97.2	70	130			
Styrene	19	1.0	20.00	0	93.8	70	130			
tert-Butylbenzene	22	1.0	20.00	0	111	70	130			
1,1,1,2-Tetrachloroethane	19	1.0	20.00	0	96.7	70	130			
1,1,2,2-Tetrachloroethane	23	2.0	20.00	0	115	67.3	134			
Tetrachloroethene (PCE)	19	1.0	20.00	0	92.6	70	130			
trans-1,2-DCE	20	1.0	20.00	0	97.8	70	130			
trans-1,3-Dichloropropene	17	1.0	20.00	0	87.0	70	130			
1,2,3-Trichlorobenzene	21	1.0	20.00	0	107	66.7	132			
1,2,4-Trichlorobenzene	23	1.0	20.00	0	115	60.4	130			
1,1,1-Trichloroethane	21	1.0	20.00	0	106	70	130			
1,1,2-Trichloroethane	19	1.0	20.00	0	93.3	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.0	70	130			
Trichlorofluoromethane	21	1.0	20.00	0	105	70	130			
1,2,3-Trichloropropane	19	2.0	20.00	0	95.1	65.2	132			
Vinyl chloride	19	1.0	20.00	0	95.2	76.5	131			
Xylenes, Total	58	1.5	60.00	0	97.4	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.6	70	130			
Surr: 4-Bromofluorobenzene	8.7		10.00		87.0	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.0	70	130			
Surr: Toluene-d8	9.7		10.00		97.1	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 greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1406301 RcptNo: 1

Received by/date: CS 06/06/14

Logged By: Anne Thorne 6/6/2014 8:51:00 AM Anne Thorne

Completed By: Anne Thorne 6/6/2014 Anne Thorne

Reviewed By: CS 06/06/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: City of Las Cruces

Mailing Address: P.O. Box 20000 Las Cruces, NM 88004

Phone #: 575-528-3609

Email or Fax#: 575-528-3630

QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other

☑ EDD (Type) EXCEL

Turn-Around Time: ☑ Standard ☐ Rush

Project Name: 6R1665/WALNUT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.7°

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1406301	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) VOC	8270 (Semi-VOA)	Air Bubbles (Y or N)
6/14	9:13	Drink H2O	CLC27-140605	3-40ml Vial	HgCl2	-001										X		
6/14	9:31	Drink H2O	CLC18-140605	3-40ml Vial	HgCl2	-002										X		
6/14	9:37	Drink H2O	IS1-140605	3-40ml Vial	HgCl2	-003										X		
6/14	10:00	Drink H2O	C1-140605	3-40ml Vial	HgCl2	-004										X		
6/14	10:04	Drink H2O	C2-140605	3-40ml Vial	HgCl2	-005										X		
6/14	10:09	Drink H2O	ES1-140605	3-40ml Vial	HgCl2	-006										X		
~~6/14~~	~~10:10~~	Lem																
6/14	10:10	Drink H2O	ES1-140605-DUPE	3-40ml Vial	HgCl2	-007										X		
6/14	UNK	LAB H2O	HALL ENV. TRIP BLANK	2-40ml Vial	HgCl2	-008										X		

Date	Time	Relinquished by:	Received by:	Date	Time
6/14	1400	Laura Montoya	Celina Sena	06/06/14	8:51
		Relinquished by:	Received by:	Date	Time

Remarks: Send results to Luis Guerra
Send invoice to Luis Guerra
c/o City of Las Cruces

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 16, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX (575) 528-3513

RE: Griggs/Walnut Superfund Process Center Monthly Analysis OrderNo.: 1407516

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/11/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:09:00 AM
Lab ID: 1407516-001 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 1:27:08 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 1:27:08 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 1:27:08 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC27_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:09:00 AM
Lab ID: 1407516-001 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 1:27:08 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 1:27:08 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Tetrachloroethene (PCE)	14	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 1:27:08 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 1:27:08 AM	R19889
Surr: 1,2-Dichloroethane-d4	85.7	70-130		%REC	1	7/16/2014 1:27:08 AM	R19889
Surr: 4-Bromofluorobenzene	86.3	70-130		%REC	1	7/16/2014 1:27:08 AM	R19889
Surr: Dibromofluoromethane	90.5	70-130		%REC	1	7/16/2014 1:27:08 AM	R19889
Surr: Toluene-d8	93.3	70-130		%REC	1	7/16/2014 1:27:08 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:38:00 AM
Lab ID: 1407516-002
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 1:55:00 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 1:55:00 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 1:55:00 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: CLC18_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:38:00 AM
Lab ID: 1407516-002
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 1:55:00 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 1:55:00 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Tetrachloroethene (PCE)	24	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 1:55:00 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 1:55:00 AM	R19889
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%REC	1	7/16/2014 1:55:00 AM	R19889
Surr: 4-Bromofluorobenzene	90.5	70-130		%REC	1	7/16/2014 1:55:00 AM	R19889
Surr: Dibromofluoromethane	90.9	70-130		%REC	1	7/16/2014 1:55:00 AM	R19889
Surr: Toluene-d8	92.8	70-130		%REC	1	7/16/2014 1:55:00 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:45:00 AM
Lab ID: 1407516-003 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 2:22:52 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 2:22:52 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 2:22:52 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:45:00 AM
Lab ID: 1407516-003 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 2:22:52 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 2:22:52 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Tetrachloroethene (PCE)	17	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 2:22:52 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 2:22:52 AM	R19889
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%REC	1	7/16/2014 2:22:52 AM	R19889
Surr: 4-Bromofluorobenzene	89.5	70-130		%REC	1	7/16/2014 2:22:52 AM	R19889
Surr: Dibromofluoromethane	88.9	70-130		%REC	1	7/16/2014 2:22:52 AM	R19889
Surr: Toluene-d8	95.3	70-130		%REC	1	7/16/2014 2:22:52 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:50:00 AM
Lab ID: 1407516-004
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 2:50:44 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 2:50:44 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 2:50:44 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:50:00 AM
Lab ID: 1407516-004
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 2:50:44 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 2:50:44 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 2:50:44 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 2:50:44 AM	R19889
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%REC	1	7/16/2014 2:50:44 AM	R19889
Surr: 4-Bromofluorobenzene	88.1	70-130		%REC	1	7/16/2014 2:50:44 AM	R19889
Surr: Dibromofluoromethane	88.1	70-130		%REC	1	7/16/2014 2:50:44 AM	R19889
Surr: Toluene-d8	92.6	70-130		%REC	1	7/16/2014 2:50:44 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:54:00 AM
Lab ID: 1407516-005
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 3:18:40 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 3:18:40 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 3:18:40 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: C2_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:54:00 AM
Lab ID: 1407516-005 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 3:18:40 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 3:18:40 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 3:18:40 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 3:18:40 AM	R19889
Surr: 1,2-Dichloroethane-d4	86.9	70-130		%REC	1	7/16/2014 3:18:40 AM	R19889
Surr: 4-Bromofluorobenzene	86.4	70-130		%REC	1	7/16/2014 3:18:40 AM	R19889
Surr: Dibromofluoromethane	86.3	70-130		%REC	1	7/16/2014 3:18:40 AM	R19889
Surr: Toluene-d8	93.1	70-130		%REC	1	7/16/2014 3:18:40 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:58:00 AM
Lab ID: 1407516-006
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 3:46:38 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Bromodichloromethane	2.0	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Bromoform	3.9	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 3:46:38 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 3:46:38 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Dibromochloromethane	4.6	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: ES1_140710
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:58:00 AM
Lab ID: 1407516-006
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 3:46:38 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 3:46:38 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 3:46:38 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 3:46:38 AM	R19889
Surr: 1,2-Dichloroethane-d4	82.9	70-130		%REC	1	7/16/2014 3:46:38 AM	R19889
Surr: 4-Bromofluorobenzene	85.0	70-130		%REC	1	7/16/2014 3:46:38 AM	R19889
Surr: Dibromofluoromethane	89.6	70-130		%REC	1	7/16/2014 3:46:38 AM	R19889
Surr: Toluene-d8	91.4	70-130		%REC	1	7/16/2014 3:46:38 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140710-DUPE
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:46:00 AM
Lab ID: 1407516-007
Matrix: AQUEOUS
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 4:14:25 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 4:14:25 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 4:14:25 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: IS1_140710-DUPE
Project: Griggs/Walnut Superfund Process Center
Collection Date: 7/10/2014 9:46:00 AM
Lab ID: 1407516-007 **Matrix:** AQUEOUS **Received Date:** 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 4:14:25 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 4:14:25 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Tetrachloroethene (PCE)	16	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 4:14:25 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 4:14:25 AM	R19889
Surr: 1,2-Dichloroethane-d4	85.3	70-130		%REC	1	7/16/2014 4:14:25 AM	R19889
Surr: 4-Bromofluorobenzene	91.9	70-130		%REC	1	7/16/2014 4:14:25 AM	R19889
Surr: Dibromofluoromethane	87.1	70-130		%REC	1	7/16/2014 4:14:25 AM	R19889
Surr: Toluene-d8	94.0	70-130		%REC	1	7/16/2014 4:14:25 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: TRIP BLANK
Project: Griggs/Walnut Superfund Process Center
Collection Date:
Lab ID: 1407516-008
Matrix: TRIP BLANK
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
Benzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Toluene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Ethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Naphthalene	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
2-Methylnaphthalene	ND	4.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Acetone	ND	10		µg/L	1	7/16/2014 4:42:22 AM	R19889
Bromobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Bromodichloromethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Bromoform	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Bromomethane	ND	3.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
2-Butanone	ND	10		µg/L	1	7/16/2014 4:42:22 AM	R19889
Carbon disulfide	ND	10		µg/L	1	7/16/2014 4:42:22 AM	R19889
Carbon Tetrachloride	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Chlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Chloroethane	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Chloroform	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Chloromethane	ND	3.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
2-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
4-Chlorotoluene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
cis-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Dibromochloromethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Dibromomethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1-Dichloroethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1-Dichloroethene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,3-Dichloropropane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
2,2-Dichloropropane	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: TRIP BLANK
Project: Griggs/Walnut Superfund Process Center
Collection Date:
Lab ID: 1407516-008
Matrix: TRIP BLANK
Received Date: 7/11/2014 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **KJH**	
1,1-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Hexachlorobutadiene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
2-Hexanone	ND	10		µg/L	1	7/16/2014 4:42:22 AM	R19889
Isopropylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
4-Isopropyltoluene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
4-Methyl-2-pentanone	ND	10		µg/L	1	7/16/2014 4:42:22 AM	R19889
Methylene Chloride	ND	3.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
n-Butylbenzene	ND	3.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
n-Propylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
sec-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Styrene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
tert-Butylbenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
trans-1,2-DCE	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Trichlorofluoromethane	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Vinyl chloride	ND	1.0		µg/L	1	7/16/2014 4:42:22 AM	R19889
Xylenes, Total	ND	1.5		µg/L	1	7/16/2014 4:42:22 AM	R19889
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%REC	1	7/16/2014 4:42:22 AM	R19889
Surr: 4-Bromofluorobenzene	86.9	70-130		%REC	1	7/16/2014 4:42:22 AM	R19889
Surr: Dibromofluoromethane	91.2	70-130		%REC	1	7/16/2014 4:42:22 AM	R19889
Surr: Toluene-d8	93.0	70-130		%REC	1	7/16/2014 4:42:22 AM	R19889

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407516**

16-Jul-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578566** 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								
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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1407516**
16-Jul-14

Client: City of Las Cruces
Project: Griggs/Walnut Superfund Process Center Month

Sample ID **5mL-rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578566** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.9	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.1	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.3	70	130			
Surr: Toluene-d8	9.3		10.00		92.6	70	130			

Sample ID **100ng lcsc**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578568** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	70	130			
Toluene	22	1.0	20.00	0	110	80	120			
Chlorobenzene	22	1.0	20.00	0	112	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407516**

16-Jul-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **100ng lcsc**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578568** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	26	1.0	20.00	0	128	82.6	131			
Trichloroethene (TCE)	22	1.0	20.00	0	108	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.8	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.6	70	130			
Surr: Dibromofluoromethane	9.3		10.00		92.8	70	130			
Surr: Toluene-d8	9.5		10.00		94.5	70	130			

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578589** 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								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407516**

16-Jul-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578589** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.4		10.00		83.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407516**

16-Jul-14

Client: City of Las Cruces

Project: Griggs/Walnut Superfund Process Center Month

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/15/2014**	SeqNo: **578589** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	8.4		10.00		84.1	70	130			
Surr: Dibromofluoromethane	8.4		10.00		84.0	70	130			
Surr: Toluene-d8	8.7		10.00		87.2	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R19889**	RunNo: **19889**
Prep Date:	Analysis Date: **7/16/2014**	SeqNo: **578591** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	21	1.0	20.00	0	105	80	120			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	24	1.0	20.00	0	122	82.6	131			
Trichloroethene (TCE)	21	1.0	20.00	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.8	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		89.6	70	130			
Surr: Dibromofluoromethane	9.1		10.00		90.9	70	130			
Surr: Toluene-d8	9.4		10.00		94.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1407516 RcptNo: 1

Received by/date: MG 07/11/14

Logged By: **Ashley Gallegos** 7/11/2014 9:10:00 AM AG

Completed By: **Ashley Gallegos** 7/11/2014 9:59:08 AM AG

Reviewed By: 07/11/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☒ EDD (Type) EXCEL

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GRIGGS/WALNUT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.6°

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1407516	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (~~VOA~~) Voc	8270 (Semi-VOA)					Air Bubbles (Y or N)
7/10/14	9:09	Drink H2O	CLC27_140710	3-40ml Vial	HgCl2	-001										X						
~~7/10/14~~		~~Drink H2O~~	~~CLC27_140710 DUP~~	~~3-40ml Vial~~	~~HgCl2~~											~~X~~						
7/10/14	9:38	Drink H2O	CLC18_140710	3-40ml Vial	HgCl2	-002										X						
7/10/14	9:45	Drink H2O	IS1_140710	3-40ml Vial	HgCl2	-003										X						
7/10/14	9:50	Drink H2O	C1_140710	3-40ml Vial	HgCl2	-004										X						
7/10/14	9:54	Drink H2O	C2_140710	3-40ml Vial	HgCl2	-005										X						
7/10/14	9:58	Drink H2O	ES1_140710	3-40ml Vial	HgCl2	-006										X						
7/10/14	9:46	Drink H2O	IS1_140710-DUP	3-40ml Vial	HgCl2	-007										X						
7/10/14	unk	Lab H2O	TRIP BLANK	2-40ml	HgCl2	-008										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/10/14	1400	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	Date	Time
				07/11/14	0910

Remarks: Send results to Luis Guerra
Send invoice to:
Luis Guerra c/o City of Las Cruce

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 17, 2014

Luis Guerra

City of Las Cruces
PO Box 20000
Las Cruces, NM 88004
TEL: (575) 528-3604
FAX (575) 528-3513

RE: Griggs/ Walnut Superfund Process Center Monthly Analysis OrderNo.: 1407522

Dear Luis Guerra:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/11/2014 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 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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140710
Project: Griggs/ Walnut Superfund Process Center
Collection Date: 7/10/2014 10:03:00 AM
Lab ID: 1407522-001 **Matrix:** AIR
Received Date: 7/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Toluene	0.17	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Ethylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Naphthalene	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
1-Methylnaphthalene	ND	0.40		µg/L	1	7/14/2014 2:46:34 PM	R19881
2-Methylnaphthalene	ND	0.40		µg/L	1	7/14/2014 2:46:34 PM	R19881
Acetone	ND	1.0		µg/L	1	7/14/2014 2:46:34 PM	R19881
Bromobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Bromodichloromethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Bromoform	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Bromomethane	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
2-Butanone	ND	1.0		µg/L	1	7/14/2014 2:46:34 PM	R19881
Carbon disulfide	ND	1.0		µg/L	1	7/14/2014 2:46:34 PM	R19881
Carbon tetrachloride	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Chlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Chloroethane	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
Chloroform	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Chloromethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
2-Chlorotoluene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
4-Chlorotoluene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
cis-1,2-DCE	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
Dibromochloromethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Dibromomethane	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,3-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,4-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Dichlorodifluoromethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1-Dichloroethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1-Dichloroethene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,3-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
2,2-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS1_140710
Project: Griggs/ Walnut Superfund Process Center
Collection Date: 7/10/2014 10:03:00 AM
Lab ID: 1407522-001 **Matrix:** AIR
Received Date: 7/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Hexachlorobutadiene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
2-Hexanone	ND	1.0		µg/L	1	7/14/2014 2:46:34 PM	R19881
Isopropylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
4-Isopropyltoluene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
4-Methyl-2-pentanone	ND	1.0		µg/L	1	7/14/2014 2:46:34 PM	R19881
Methylene chloride	ND	0.30		µg/L	1	7/14/2014 2:46:34 PM	R19881
n-Butylbenzene	ND	0.30		µg/L	1	7/14/2014 2:46:34 PM	R19881
n-Propylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
sec-Butylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Styrene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
tert-Butylbenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Tetrachloroethene (PCE)	0.20	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
trans-1,2-DCE	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1,1-Trichloroethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,1,2-Trichloroethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Trichloroethene (TCE)	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Trichlorofluoromethane	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
1,2,3-Trichloropropane	ND	0.20		µg/L	1	7/14/2014 2:46:34 PM	R19881
Vinyl chloride	ND	0.10		µg/L	1	7/14/2014 2:46:34 PM	R19881
Xylenes, Total	ND	0.15		µg/L	1	7/14/2014 2:46:34 PM	R19881
Surr: Dibromofluoromethane	85.4	70-130		%REC	1	7/14/2014 2:46:34 PM	R19881
Surr: 1,2-Dichloroethane-d4	86.4	70-130		%REC	1	7/14/2014 2:46:34 PM	R19881
Surr: Toluene-d8	105	70-130		%REC	1	7/14/2014 2:46:34 PM	R19881
Surr: 4-Bromofluorobenzene	86.8	70-130		%REC	1	7/14/2014 2:46:34 PM	R19881

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140710
Project: Griggs/ Walnut Superfund Process Center
Collection Date: 7/10/2014 10:06:00 AM
Lab ID: 1407522-002 **Matrix:** AIR
Received Date: 7/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Toluene	0.18	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Ethylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Methyl tert-butyl ether (MTBE)	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2,4-Trimethylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,3,5-Trimethylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2-Dichloroethane (EDC)	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2-Dibromoethane (EDB)	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Naphthalene	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
1-Methylnaphthalene	ND	0.40		µg/L	1	7/14/2014 3:44:49 PM	R19881
2-Methylnaphthalene	ND	0.40		µg/L	1	7/14/2014 3:44:49 PM	R19881
Acetone	ND	1.0		µg/L	1	7/14/2014 3:44:49 PM	R19881
Bromobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Bromodichloromethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Bromoform	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Bromomethane	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
2-Butanone	ND	1.0		µg/L	1	7/14/2014 3:44:49 PM	R19881
Carbon disulfide	ND	1.0		µg/L	1	7/14/2014 3:44:49 PM	R19881
Carbon tetrachloride	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Chlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Chloroethane	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
Chloroform	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Chloromethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
2-Chlorotoluene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
4-Chlorotoluene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
cis-1,2-DCE	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
cis-1,3-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2-Dibromo-3-chloropropane	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
Dibromochloromethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Dibromomethane	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,3-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,4-Dichlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Dichlorodifluoromethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1-Dichloroethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1-Dichloroethene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,3-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
2,2-Dichloropropane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881

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
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: City of Las Cruces
Client Sample ID: AS2_140710
Project: Griggs/ Walnut Superfund Process Center
Collection Date: 7/10/2014 10:06:00 AM
Lab ID: 1407522-002 **Matrix:** AIR
Received Date: 7/11/2014 8:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Hexachlorobutadiene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
2-Hexanone	ND	1.0		µg/L	1	7/14/2014 3:44:49 PM	R19881
Isopropylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
4-Isopropyltoluene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
4-Methyl-2-pentanone	ND	1.0		µg/L	1	7/14/2014 3:44:49 PM	R19881
Methylene chloride	ND	0.30		µg/L	1	7/14/2014 3:44:49 PM	R19881
n-Butylbenzene	ND	0.30		µg/L	1	7/14/2014 3:44:49 PM	R19881
n-Propylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
sec-Butylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Styrene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
tert-Butylbenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1,1,2-Tetrachloroethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1,2,2-Tetrachloroethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Tetrachloroethene (PCE)	0.23	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
trans-1,2-DCE	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
trans-1,3-Dichloropropene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2,3-Trichlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2,4-Trichlorobenzene	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1,1-Trichloroethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,1,2-Trichloroethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Trichloroethene (TCE)	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Trichlorofluoromethane	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
1,2,3-Trichloropropane	ND	0.20		µg/L	1	7/14/2014 3:44:49 PM	R19881
Vinyl chloride	ND	0.10		µg/L	1	7/14/2014 3:44:49 PM	R19881
Xylenes, Total	ND	0.15		µg/L	1	7/14/2014 3:44:49 PM	R19881
Surr: Dibromofluoromethane	86.9	70-130		%REC	1	7/14/2014 3:44:49 PM	R19881
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%REC	1	7/14/2014 3:44:49 PM	R19881
Surr: Toluene-d8	113	70-130		%REC	1	7/14/2014 3:44:49 PM	R19881
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	7/14/2014 3:44:49 PM	R19881

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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407522**

17-Jul-14

Client: City of Las Cruces

Project: Griggs/ Walnut Superfund Process Center Mont

Sample ID **1407522-001adup**	SampType: **DUP**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **AS1_140710**	Batch ID: **R19881**	RunNo: **19881**
Prep Date:	Analysis Date: **7/14/2014**	SeqNo: **577830** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.10						0	20	
Toluene	0.17	0.10						1.64	20	
Ethylbenzene	ND	0.10						0	22.4	
Methyl tert-butyl ether (MTBE)	ND	0.10						0	20	
1,2,4-Trimethylbenzene	ND	0.10						0	33.7	
1,3,5-Trimethylbenzene	ND	0.10						0	27.6	
1,2-Dichloroethane (EDC)	ND	0.10						0	20	
1,2-Dibromoethane (EDB)	ND	0.10						0	20	
Naphthalene	ND	0.20						0	20	
1-Methylnaphthalene	ND	0.40						0	20	
2-Methylnaphthalene	ND	0.40						0	20	
Acetone	ND	1.0						0	20	
Bromobenzene	ND	0.10						0	20	
Bromodichloromethane	ND	0.10						0	20	
Bromoform	ND	0.10						0	20	
Bromomethane	ND	0.20						0	20	
2-Butanone	ND	1.0						0	20	
Carbon disulfide	ND	1.0						0	20	
Carbon tetrachloride	ND	0.10						0	20	
Chlorobenzene	ND	0.10						0	20	
Chloroethane	ND	0.20						0	20	
Chloroform	ND	0.10						0	20	
Chloromethane	ND	0.10						0	20	
2-Chlorotoluene	ND	0.10						0	20	
4-Chlorotoluene	ND	0.10						0	20	
cis-1,2-DCE	ND	0.10						0	20	
cis-1,3-Dichloropropene	ND	0.10						0	20	
1,2-Dibromo-3-chloropropane	ND	0.20						0	20	
Dibromochloromethane	ND	0.10						0	20	
Dibromomethane	ND	0.20						0	20	
1,2-Dichlorobenzene	ND	0.10						0	20	
1,3-Dichlorobenzene	ND	0.10						0	20	
1,4-Dichlorobenzene	ND	0.10						0	20	
Dichlorodifluoromethane	ND	0.10						0	20	
1,1-Dichloroethane	ND	0.10						0	20	
1,1-Dichloroethene	ND	0.10						0	20	
1,2-Dichloropropane	ND	0.10						0	20	
1,3-Dichloropropane	ND	0.10						0	20	
2,2-Dichloropropane	ND	0.10						0	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1407522**

17-Jul-14

Client: City of Las Cruces

Project: Griggs/ Walnut Superfund Process Center Mont

Sample ID **1407522-001adup**	SampType: **DUP**	TestCode: **EPA Method 8260B: Volatiles**
Client ID: **AS1_140710**	Batch ID: **R19881**	RunNo: **19881**
Prep Date:	Analysis Date: **7/14/2014**	SeqNo: **577830** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.10						0	20	
Hexachlorobutadiene	ND	0.10						0	20	
2-Hexanone	ND	1.0						0	20	
Isopropylbenzene	ND	0.10						0	20	
4-Isopropyltoluene	ND	0.10						0	20	
4-Methyl-2-pentanone	ND	1.0						0	20	
Methylene chloride	ND	0.30						0	20	
n-Butylbenzene	ND	0.30						0	20	
n-Propylbenzene	ND	0.10						0	20	
sec-Butylbenzene	ND	0.10						0	20	
Styrene	ND	0.10						0	20	
tert-Butylbenzene	ND	0.10						0	20	
1,1,1,2-Tetrachloroethane	ND	0.10						0	20	
1,1,2,2-Tetrachloroethane	ND	0.10						0	20	
Tetrachloroethene (PCE)	0.21	0.10						2.52	20	
trans-1,2-DCE	ND	0.10						0	20	
trans-1,3-Dichloropropene	ND	0.10						0	20	
1,2,3-Trichlorobenzene	ND	0.10						0	20	
1,2,4-Trichlorobenzene	ND	0.10						0	20	
1,1,1-Trichloroethane	ND	0.10						0	20	
1,1,2-Trichloroethane	ND	0.10						0	20	
Trichloroethene (TCE)	ND	0.10						0	20	
Trichlorofluoromethane	ND	0.10						0	20	
1,2,3-Trichloropropane	ND	0.20						0	20	
Vinyl chloride	ND	0.10						0	20	
Xylenes, Total	ND	0.15						0	25.8	
Surr: Dibromofluoromethane	0.87		1.000		86.7	70	130	0	0	
Surr: 1,2-Dichloroethane-d4	0.86		1.000		85.6	70	130	0	0	
Surr: Toluene-d8	1.0		1.000		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	70	130	0	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 greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: City of Las Cruces Work Order Number: 1407522 RcptNo: 1

Received by/date: RM 07/11/14

Logged By: **Ashley Gallegos** 7/11/2014 8:50:00 AM

Completed By: **Ashley Gallegos** 7/11/2014 10:32:45 AM

Reviewed By: CS 07/11/14

Chain of Custody

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?	FedEx		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: City of Las Cruces

Mailing Address: P.O. Box 20000
Las Cruces, NM 88004

Phone #: 575-528-3609

email or Fax#: 575-528-3630

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: GRIGGS/WALNUT SUPERFUND PROCESS CENTER MONTHLY ANALYSIS

Project #:

Project Manager: Luis Guerra
lguerra@las-cruces.org

Sampler: Laura Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: N/A

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 Request ID	Container Type and #	Preservative Type	HEAL No. 1407522	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA) VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
7/10/14	10:03	AIR	AS1-140710	1-Tedlar BAG	NONE	-001										X						
7/10/14	10:06	AIR	AS2-140710	1-Tedlar BAG	NONE	-002										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/10/14	1400	Laura Montoya			
Date:	Time:	Relinquished by:	Received by:	07/11/14	0850

Remarks: Send results to Luis Guerra
Send invoice to:
Luis Guerra c/o City of Las Cruces

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.