

GW - 114

REPORTS

**Quarterly
Groundwater**

2nd Quarter 2013

Virgilio Cocianni
Remediation Manager
Schlumberger Technology Corporation
105 Industrial Boulevard
Sugar Land, TX 77478
Tel: (281) 285-4747

Schlumberger

RECEIVED OGD

2013 JUL 15 P 12: 42

July 12, 2013

Mr. Edward Hansen
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Second Quarter Monitoring Results—2013
Former Dowell Schlumberger Facility, Artesia, New Mexico (Discharge Permit GW-114)

Dear Mr. Hansen:

This report summarizes quarterly groundwater and soil vapor monitoring and operations and maintenance (O&M) activities at the former Dowell Schlumberger Facility in Artesia, New Mexico that were performed on April 16–17, 2013. The results are enclosed for your review, and a comprehensive analysis will be included in the 2013 Annual Report.

Static water elevation data from April 2013, measured in 34 monitoring wells located at or near the facility, are presented in Table 1. The data were used to generate a potentiometric surface map as shown on Figure 1. The groundwater flow direction and gradient generally remain consistent with previous data. Influences from the extraction and reinjection of water in the downgradient chlorinated volatile organic compound (CVOC) plume can be seen in the potentiometric surface.

The laboratory analytical results for groundwater quality monitoring for the period from April 2012 through April 2013 are summarized in Table 2. The laboratory analytical results for soil vapor from the wash rack soil vapor extraction (SVE) system for the period from April 2012 through April 2013 are summarized on Table 3. The laboratory reports are included as Attachment 1. The highest downgradient concentrations of CVOCs are observed in wells MW-25 and MW-30. However, both wells have shown decreasing concentrations for the last 2 to 3 years. During the second quarter of 2013, CVOC concentrations in MW-25 were similar to those observed in the previous sampling event. CVOC concentrations in MW-30 were slightly lower than those observed in the previous sampling event. Wells in the source areas continue to display stable concentrations of CVOCs near or below the Water Quality Control Commission (WQCC) Human Health Standards (New Mexico Administrative Code 20.6.2.3103.A). The SVE soil vapor analytical results indicated that there were no detected concentrations of CVOCs or petroleum hydrocarbon compounds in the soil vapor sample from the wash rack SVE system.

Mr. Edward Hansen
July 12, 2013
Page 2

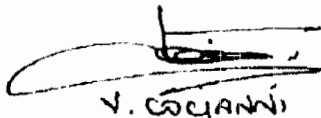
Isoconcentration maps have typically only been prepared with data from the sitewide annual sampling events. However, Figure 2 was prepared for this quarterly report to illustrate the current concentrations in the tetrachloroethylene (PCE) plume as a result of the groundwater treatment system's operational changes implemented in fall of 2012. While previous isoconcentration maps have shown total concentrations of CVOCs, total CVOC concentrations have decreased to the point that it is more useful to evaluate PCE concentrations.

To help accelerate removal of CVOC mass and to limit downgradient migration of the plume, treatment of extracted groundwater was added to the existing extraction system in the fall of 2012. Groundwater is treated by pumping extracted water through granular activated carbon canisters and discharging it to the infiltration trench located upgradient of the central portion of the downgradient plume. The post-treatment groundwater was sampled and found to be nondetect for CVOCs. The data indicate the groundwater extraction and treatment system is both removing contaminant mass from the downgradient plume and diluting the upgradient portion of the plume by re-injecting clean water. Well MW-31, adjacent to the infiltration trench, has had PCE concentrations decrease from 0.036 milligrams per liter in April 2012 to nondetect (less than 0.001 milligrams per liter) in April 2013.

Potentiometric data indicate that the groundwater extraction and reinjection system is hydraulically influencing the central portion of the downgradient plume (Figure 1). Data indicate that a modest cone of depression is present around the extraction wells. Additionally, data from wells MW-18, MW-22, MW-25, and MW-30, within the central portion of the downgradient plume, have shown decreased CVOC concentrations since treatment and reinjection of clean water has started.

If you have any questions or comments, please call me at (281) 285-4747.

Sincerely,



V. COCIANNI

Virgilio Cocianni
Remediation Manager

Enclosures

cc: Jim Strunk, The Dow Chemical Company (1 hard copy and 1 electronic copy)
Cathy Barnett/CH2M HILL (1 electronic copy)
Jennifer Laggan/CH2M HILL (1 electronic copy)
Jeffrey Minchak/CH2M HILL (1 electronic copy)

Tables

TABLE 1
Static Water Elevation Data, Schlumberger Oilfield Services Facility
Former Dowell Schlumberger Facility, Artesia, New Mexico

WELL NUMBER	DATE MEASURED	TOTAL WELL DEPTH (Ft)	MEASURING POINT	MEASURING POINT ELEVATION (Ft)	DEPTH TO GROUND WATER (Ft)	STATIC WATER ELEVATION (Ft)
MW-1	04/16/13	30.00	Protective Casing	3358.52	11.66	3346.86
MW-2	04/16/13	30.00	Protective Casing	3357.52	10.89	3346.63
MW-4	04/16/13	50.00	Protective Casing	3357.67	10.71	3346.96
MW-5	04/16/13	30.00	Protective Casing	3357.46	11.20	3346.26
MW-6	04/16/13	35.00	Protective Casing	3358.80	14.82	3343.98
MW-7	04/16/13	35.00	Protective Casing	3358.19	14.88	3343.31
MW-8	04/16/13	35.00	Protective Casing	3359.43	16.33	3343.10
MW-9	04/16/13	30.00	Protective Casing	3357.29	12.85	3344.44
MW-10	04/16/13	30.00	Protective Casing	3357.80	13.45	3344.35
MW-11	04/16/13	30.00	Protective Casing	3356.16	12.82	3343.34
MW-12	04/16/13	34.00	Protective Casing	3356.45	12.58	3343.87
MW-13	04/16/13	45.00	Protective Casing	3357.21	11.62	3345.59
MW-14	04/16/13	35.00	Protective Casing	3356.70	11.40	3345.30
MW-15	04/16/13	34.00	Protective Casing	3357.65	12.57	3345.08
MW-17A	04/16/13	26.00	Protective Casing	3356.25	12.32	3343.93
MW-17B	04/16/13	34.00	Protective Casing	3356.50	12.68	3343.82
MW-17C	04/16/13	61.00	Protective Casing	3356.49	12.59	3343.90
MW-17D	04/16/13	19.00	Protective Casing	3356.42	12.52	3343.90
MW-18	04/16/13	28.00	Protective Casing	3356.65	13.75	3342.90
MW-19	04/16/13	28.00	Protective Casing	3357.02	13.51	3343.51
MW-20	04/16/13	28.00	Protective Casing	3359.05	17.88	3341.17
MW-21	04/16/13	25.00	Protective Casing	3356.83	15.96	3340.87
MW-22	04/16/13	24.50	Protective Casing	3355.11	14.78	3340.33
MW-23	04/16/13	25.00	Protective Casing	3355.26	13.23	3342.03
MW-24	04/16/13	27.00	Protective Casing	3361.37	18.88	3342.49
MW-25	04/16/13	25.00	Protective Casing	3355.61	16.44	3339.17
MW-26	04/16/13	25.00	Protective Casing	3354.14	15.53	3338.61
MW-27	04/16/13	25.00	Protective Casing	3354.17	14.60	3339.57
MW-28	04/16/13	25.00	Protective Casing	3355.88	18.78	3337.10
MW-29	04/16/13	25.00	Protective Casing	3354.99	19.39	3335.60
MW-30	04/16/13	25.00	Protective Casing	3354.53	19.28	3335.25
MW-31	04/16/13	NA	Protective Casing	3356.32	13.18	3343.14
MW-32	04/16/13	NA	Protective Casing	3354.46	17.48	3336.98
MW-33	04/16/13	NA	Protective Casing	3349.63	15.18	3334.45

NM = Not measured

NA = Not available

TABLE 2

Summary of Laboratory Analytical Results, Groundwater Samples April 2012 - April 2013

Former Dowell Schlumberger Facility, Artesia, New Mexico

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	TOTAL XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TOTAL 1,2-DCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	CHLORO- ETHANE (mg/L)
MW-1	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-2	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
MW-4	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-5	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-6	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/17/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.054	ND(0.001)	ND(0.001)
MW-7	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
MW-8	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.002	0.002	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001	0.002	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001	0.003	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001	0.002	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.002	ND(0.001)	ND(0.001)	0.001	0.002	ND(0.001)
MW-9	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.018	ND(0.001)	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.017	ND(0.001)	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.023	0.001	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.020	ND(0.001)	ND(0.001)
	04/17/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.016	ND(0.001)	ND(0.001)
MW-10	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	0.001	ND(0.001)	ND(0.001)	0.003	0.003	ND(0.001)
MW-11	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	0.002	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.001	ND(0.001)	ND(0.001)	0.001	0.003	ND(0.001)
MW-12	04/19/12	0.009	0.110	ND(0.001)	0.024	0.032	ND(0.001)	0.003	0.068	ND(0.001)	0.003	ND(0.001)	ND(0.001)
	07/17/12	0.008	0.180	ND(0.001)	0.004	0.026	ND(0.001)	0.003	0.046	ND(0.001)	0.004	ND(0.001)	ND(0.001)
	10/17/12	0.020	0.460	ND(0.001)	0.200	0.062	ND(0.001)	0.004	0.110	ND(0.001)	0.006	0.002	ND(0.001)
	01/23/13	0.007	0.190	ND(0.001)	0.051	0.029	ND(0.001)	0.002	0.038	ND(0.001)	0.005	0.001	ND(0.001)
	04/17/13	0.015	0.400	ND(0.001)	0.093	0.050	ND(0.001)	0.004	0.059	ND(0.001)	0.005	0.002	ND(0.001)
MW-13	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/17/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-14	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-15	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)		ND(0.001)	0.009	ND(0.001)	0.052	ND(0.001)	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.043	0.002	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	0.056	0.002	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	0.040	0.002	ND(0.001)
	04/17/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.054	ND(0.001)	ND(0.001)
MW-17A	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)
MW-17B	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-17C *	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-17D	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)
MW-18	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.022	ND(0.001)	ND(0.001)	0.007	0.040	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.016	ND(0.001)	ND(0.001)	0.003	0.022	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.013	ND(0.001)	ND(0.001)	0.002	0.011	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.010	ND(0.001)	ND(0.001)	0.002	0.009	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.012	ND(0.001)	ND(0.001)	0.001	0.009	ND(0.001)
MW-19	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

TABLE 2

Summary of Laboratory Analytical Results, Groundwater Samples April 2012 - April 2013

Former Dowell Schlumberger Facility, Artesia, New Mexico

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	TOTAL XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TOTAL 1,2-DCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	CHLORO- ETHANE (mg/L)
MW-20	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.004	0.002	ND(0.001)	0.004	0.005	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.004	0.002	ND(0.001)	0.004	0.004	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.003	0.002	ND(0.001)	0.004	0.004	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.003	0.002	ND(0.001)	0.005	0.004	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.014	ND(0.001)	0.004	0.003	ND(0.001)	0.004	0.003	ND(0.001)
MW-21	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	0.018	ND(0.001)	ND(0.001)	0.007	0.035	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	0.018	ND(0.001)	ND(0.001)	0.006	0.058	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.023	ND(0.001)	ND(0.001)	0.005	0.019	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.008	ND(0.001)	ND(0.001)	0.002	0.005	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.006	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
MW-22	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	0.018	ND(0.001)	ND(0.001)	0.007	0.029	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.012	ND(0.001)	ND(0.001)	0.006	0.020	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.022	ND(0.001)	ND(0.001)	0.007	0.021	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.006	ND(0.001)	0.016	ND(0.001)	ND(0.001)	0.008	0.016	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.018	ND(0.001)	ND(0.001)	0.005	0.015	ND(0.001)
MW-23	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-24	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-25	04/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.034	ND(0.001)	ND(0.001)	0.009	0.036	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	0.023	ND(0.001)	ND(0.001)	0.007	0.029	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.026	ND(0.001)	ND(0.001)	0.008	0.035	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.026	ND(0.001)	ND(0.001)	0.008	0.030	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.033	ND(0.001)	ND(0.001)	0.007	0.030	ND(0.001)
MW-26	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-26A	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.013	ND(0.001)	ND(0.001)	0.004	0.020	ND(0.001)
MW-27	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-28	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.012	ND(0.001)	0.022	0.001	ND(0.001)	0.008	0.018	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.020	0.001	ND(0.001)	0.008	0.027	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.011	ND(0.001)	0.021	0.001	ND(0.001)	0.008	0.022	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.019	ND(0.001)	ND(0.001)	0.009	0.020	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.012	ND(0.001)	0.027	ND(0.001)	ND(0.001)	0.007	0.022	ND(0.001)
MW-29	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.005	ND(0.001)	ND(0.001)	0.001	0.002	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	0.007	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)
MW-30	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.013	ND(0.001)	0.048	ND(0.001)	ND(0.001)	0.011	0.046	ND(0.001)
	07/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.008	ND(0.001)	0.031	ND(0.001)	ND(0.001)	0.009	0.036	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.010	ND(0.001)	0.034	ND(0.001)	ND(0.001)	0.009	0.043	ND(0.001)
	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.009	ND(0.001)	0.032	ND(0.001)	ND(0.001)	0.010	0.037	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.009	ND(0.001)	0.032	ND(0.001)	ND(0.001)	0.007	0.032	ND(0.001)

TABLE 2

Summary of Laboratory Analytical Results, Groundwater Samples April 2012 - April 2013

Former Dowell Schlumberger Facility, Artesia, New Mexico

WELL NUMBER	SAMPLE DATE	BENZENE (mg/L)	ETHYL- BENZENE (mg/L)	TOLUENE (mg/L)	TOTAL XYLENES (mg/L)	1,1-DCA (mg/L)	1,2-DCA (mg/L)	1,1-DCE (mg/L)	TOTAL 1,2-DCE (mg/L)	1,1,1-TCA (mg/L)	TCE (mg/L)	PCE (mg/L)	CHLORO- ETHANE (mg/L)
MW-31	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.022	ND(0.001)	ND(0.001)	0.007	0.036	ND(0.001)
	07/19/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.004	ND(0.001)	0.014	ND(0.001)	ND(0.001)	0.005	0.017	ND(0.001)
	10/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.012	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.003	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
MW-32	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/18/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.016	ND(0.001)	ND(0.001)	0.004	0.016	ND(0.001)
	07/17/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.011	ND(0.001)	ND(0.001)	0.003	0.016	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.009	ND(0.001)	ND(0.001)	0.003	0.011	ND(0.001)
MW-33	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)	0.008	ND(0.001)	ND(0.001)	0.002	0.009	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.002	ND(0.001)	0.009	ND(0.001)	ND(0.001)	0.002	0.008	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Tank	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	10/16/12	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.007	ND(0.001)	0.019	ND(0.001)	ND(0.001)	ND(0.001)	0.001	ND(0.001)
Tank (A)	01/24/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/17/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Tank (B)	01/23/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	0.003	ND(0.001)	0.006	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
	04/16/13	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

NOTES:

Analytical method used EPA Method 8260

mg/L = milligrams per liter (equivalent to parts per million)

ND(0.001) = chemical not detected at concentration above detection limit shown in parentheses

J = chemical detected at concentration above instrument detection limit but below method detection limit

CHEMICAL ABBREVIATIONS:

1,1-DCA = 1,1-dichloroethane

1,2-DCA = 1,2-dichloroethane

1,1-DCE = 1,1-dichloroethene

1,1,1-TCA = 1,1,1-trichloroethane

1,1,2-TCA = 1,1,2-trichloroethane

TCE = trichloroethene

PCE = tetrachloroethene

TABLE 3

Summary of Laboratory Analytical Results, Soil Vapor Samples April 2012 - April 2013

Former Dowell Schlumberger Facility, Artesia, New Mexico

SVE ZONE	SAMPLE DATE	BENZENE (mg/m3)	ETHYL- BENZENE (mg/m3)	TOLUENE (mg/m3)	TOTAL XYLENES (mg/m3)	1,1-DCA (mg/m3)	1,2-DCA (mg/m3)	1,1-DCE (mg/m3)	1,1,1- TCA (mg/m3)	1,1,2- TCA (mg/m3)	TCE (mg/m3)	PCE (mg/m3)
WB-COMP	04/18/12	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	07/18/12	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	10/17/12	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	01/23/13	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
	04/16/13	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

NOTES:

mg/m3 = milligrams per cubic meter

ND - analyte not detected above listed reporting limit

WB-COMP = composite sample from Wash Bay zones 1, 2, and 3

CHEMICAL ABBREVIATIONS:

1,1-DCA = 1,1-dichloroethane

1,2-DCA = 1,2-dichloroethane

1,1-DCE = 1,1-dichloroethene

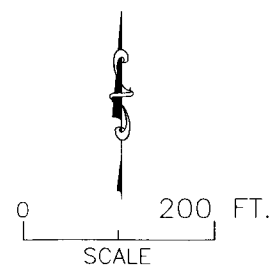
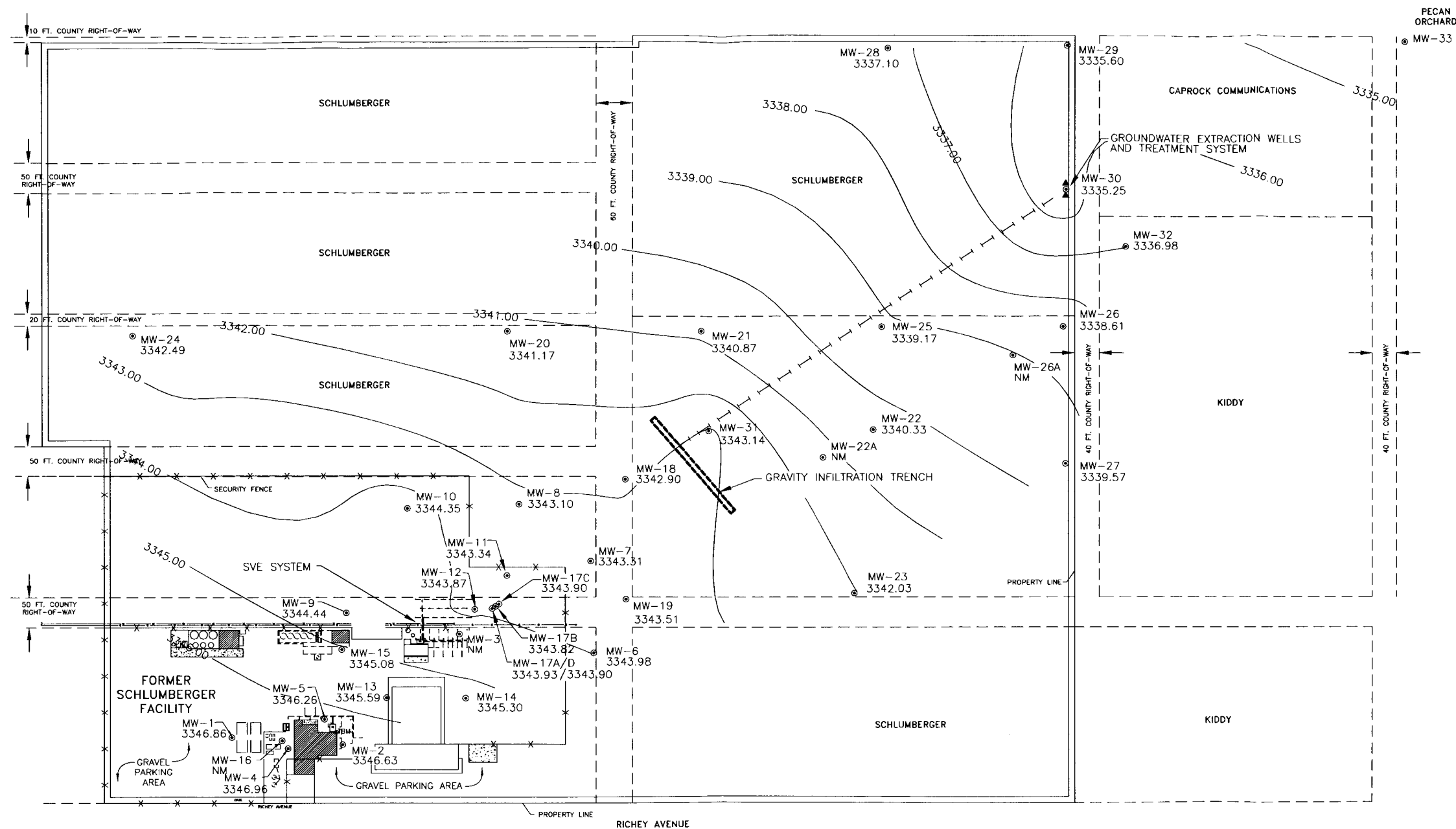
1,1,1-TCA = 1,1,1-trichloroethane

1,1,2-TCA = 1,1,2-trichloroethane

TCE = trichloroethene

PCE = tetrachloroethene

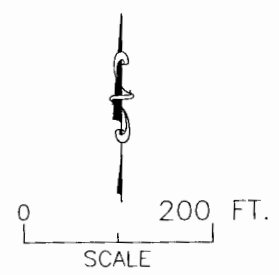
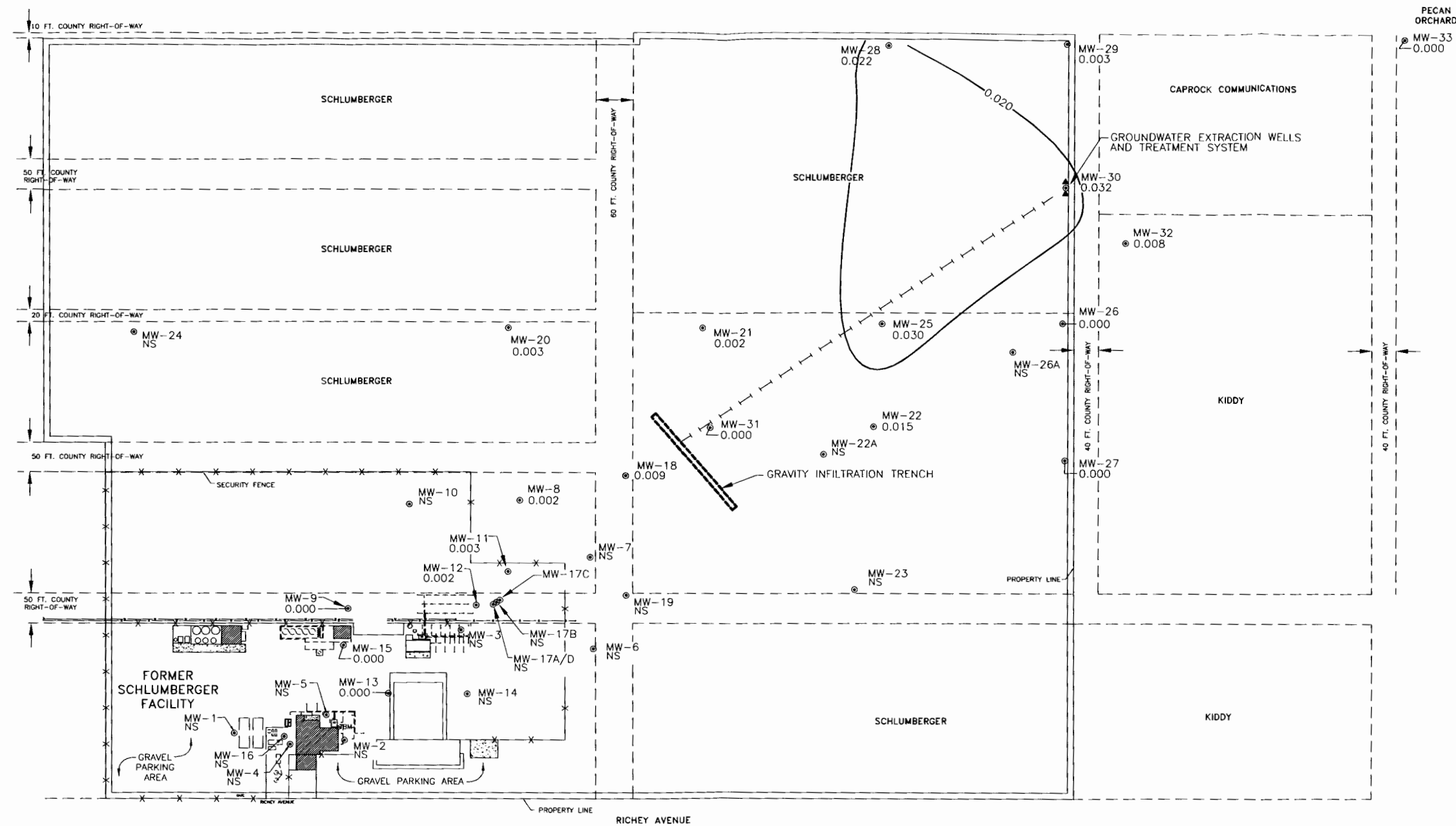
Figures



BASE MAP MODIFIED FROM REED & ASSOCIATES

EXPLANATION	
— 3344.00 —	EXISTING CONTOURS
● MW-11	MONITORING WELL
○ 3343.18	GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
NM	NOT MEASURED
---	RIGHT OF WAY BOUNDARY
▲	GROUNDWATER EXTRACTION WELL
—+—+—	GROUNDWATER TREATMENT SYSTEM CONVEYANCE LINE

FIGURE 1
SITE MAP POTENTIOMETRIC SURFACE
SECOND QUARTER MONITORING RESULTS - 2013
FORMER DOWELL SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO



BASE MAP MODIFIED FROM REED & ASSOCIATES

EXPLANATION

- MW-11 MONITORING WELL
- 0.002 PCE CONCENTRATION mg/L
- NS NOT SAMPLED
- RIGHT OF WAY BOUNDARY
- ▲ GROUNDWATER EXTRACTION WELL
- - - GROUNDWATER TREATMENT SYSTEM CONVEYANCE LINE
- 0.020 mg/L WQCC Standard for PCE isopleth

FIGURE 2
 ISOCONCENTRATION MAP FOR PCE
 SECOND QUARTER MONITORING RESULTS - 2013
 FORMER DOWELL SCHLUMBERGER FACILITY, ARTESIA, NEW MEXICO

Attachment 1



ANALYTICAL SUMMARY REPORT

April 29, 2013

Deuell Environmental LLC
1653 Diamond Head Ct
Laramie, WY 82072

Workorder No.: C13040638

Project Name: 90125 Artesia

Energy Laboratories, Inc. Casper WY received the following 26 samples for Deuell Environmental LLC on 4/19/2013 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C13040638-001	90125-20.4/13	04/16/13 7:00	04/19/13	Aqueous	SW8260B VOCs, Standard List
C13040638-002	90125-28.4/13	04/16/13 7:30	04/19/13	Aqueous	Same As Above
C13040638-003	90125-29.4/13	04/16/13 8:00	04/19/13	Aqueous	Same As Above
C13040638-004	90125-30.4/13	04/16/13 8:30	04/19/13	Aqueous	Same As Above
C13040638-005	90125-Tank B.4/13	04/16/13 8:45	04/19/13	Aqueous	Same As Above
C13040638-006	90125-32.4/13	04/16/13 9:00	04/19/13	Aqueous	Same As Above
C13040638-007	90125-33.4/13	04/16/13 9:30	04/19/13	Aqueous	Same As Above
C13040638-008	90125-26. 4/13	04/16/13 10:00	04/19/13	Aqueous	Same As Above
C13040638-009	90125-27.4/13	04/16/13 10:30	04/19/13	Aqueous	Same As Above
C13040638-010	90125-22.4/13	04/16/13 11:00	04/19/13	Aqueous	Same As Above
C13040638-011	90125-25.4/13	04/16/13 11:30	04/19/13	Aqueous	Same As Above
C13040638-012	90125-21.4/13	04/16/13 12:00	04/19/13	Aqueous	Same As Above
C13040638-013	90125-31.4/13	04/16/13 12:30	04/19/13	Aqueous	Same As Above
C13040638-014	90125-18.4/13	04/16/13 13:00	04/19/13	Aqueous	Same As Above
C13040638-015	90125-11.4/13	04/16/13 13:30	04/19/13	Aqueous	Same As Above
C13040638-016	90125-8.4/13	04/16/13 14:00	04/19/13	Aqueous	Same As Above
C13040638-017	90125-Tank A.4/14	04/17/13 7:00	04/19/13	Aqueous	Same As Above
C13040638-018	90125-13.4/13	04/17/13 8:30	04/19/13	Aqueous	Same As Above
C13040638-019	90125-15.4/13	04/17/13 9:00	04/19/13	Aqueous	Same As Above
C13040638-020	90125-9.4/13	04/17/13 9:30	04/19/13	Aqueous	Same As Above
C13040638-021	90125-12.4/13	04/17/13 10:00	04/19/13	Aqueous	Same As Above
C13040638-022	90125-A.4/13	04/16/13 6:30	04/19/13	Aqueous	Same As Above
C13040638-023	90125-B.4/13	04/16/13 6:00	04/19/13	Aqueous	Same As Above
C13040638-024	90125-6.4/13	04/17/13 6:30	04/19/13	Aqueous	Same As Above
C13040638-025	Trip Blank 7305	04/17/13 0:00	04/19/13	Aqueous	Same As Above
C13040638-026	Temp Blank		04/19/13	Aqueous	Temperature



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-9515
Gillette, WY 888-886-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

ANALYTICAL SUMMARY REPORT

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:


Report Proofing Specialist

Digitally signed by

Sheri M. Mead

Date: 2013.04.29 14:46:48 -06:00



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-001
Client Sample ID 90125-20.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 07:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1-Dichloroethane	14	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1-Dichloroethene	3.6	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
cis-1,2-Dichloroethene	2.6	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-001
Client Sample ID 90125-20.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 07:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 15:22 / jk
Methyl tert-butyl ether (MTBE)	3.8	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Tetrachloroethene	3.4	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Trichloroethene	3.6	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 15:22 / jk
Surr: 1,2-Dichlorobenzene-d4	110	%REC		80-120		SW8260B	04/19/13 15:22 / jk
Surr: Dibromofluoromethane	109	%REC		70-130		SW8260B	04/19/13 15:22 / jk
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	04/19/13 15:22 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/19/13 15:22 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-002
Client Sample ID 90125-28.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 07:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1-Dichloroethane	12	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1-Dichloroethene	27	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-002
Client Sample ID 90125-28.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 07:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 15:57 / jk
Methyl tert-butyl ether (MTBE)	2.1	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Tetrachloroethene	22	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Trichloroethene	7.2	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 15:57 / jk
Surr: 1,2-Dichlorobenzene-d4	113	%REC		80-120		SW8260B	04/19/13 15:57 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	04/19/13 15:57 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/19/13 15:57 / jk
Surr: Toluene-d8	109	%REC		80-120		SW8260B	04/19/13 15:57 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-003
Client Sample ID 90125-29.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1-Dichloroethane	1.0	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1-Dichloroethene	7.3	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-003
Client Sample ID: 90125-29.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 16:32 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Tetrachloroethene	2.8	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 16:32 / jk
Surr: 1,2-Dichlorobenzene-d4	115	%REC		80-120		SW8260B	04/19/13 16:32 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	04/19/13 16:32 / jk
Surr: p-Bromofluorobenzene	118	%REC		80-120		SW8260B	04/19/13 16:32 / jk
Surr: Toluene-d8	108	%REC		80-120		SW8260B	04/19/13 16:32 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-004
Client Sample ID 90125-30.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1-Dichloroethane	9.3	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1-Dichloroethene	32	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-886-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-004
Client Sample ID 90125-30.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 17:07 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Tetrachloroethene	32	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Trichloroethene	7.2	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 17:07 / jk
Surr: 1,2-Dichlorobenzene-d4	109	%REC		80-120		SW8260B	04/19/13 17:07 / jk
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	04/19/13 17:07 / jk
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	04/19/13 17:07 / jk
Surr: Toluene-d8	111	%REC		80-120		SW8260B	04/19/13 17:07 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-005
Client Sample ID 90125-Tank B.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:45
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-005
Client Sample ID 90125-Tank B.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 08:45
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 21:51 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 21:51 / jk
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	04/19/13 21:51 / jk
Surr: Dibromofluoromethane	110	%REC		70-130		SW8260B	04/19/13 21:51 / jk
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	04/19/13 21:51 / jk
Surr: Toluene-d8	109	%REC		80-120		SW8260B	04/19/13 21:51 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-006
Client Sample ID 90125-32.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 09:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1-Dichloroethane	1.9	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1-Dichloroethene	9.3	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-006
Client Sample ID 90125-32.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 09:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 22:26 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Tetrachloroethene	8.0	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Trichloroethene	1.6	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 22:26 / jk
Surr: 1,2-Dichlorobenzene-d4	113	%REC		80-120		SW8260B	04/19/13 22:26 / jk
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	04/19/13 22:26 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/19/13 22:26 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/19/13 22:26 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-007
Client Sample ID 90125-33.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 09:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-007
Client Sample ID: 90125-33.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 09:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 23:02 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 23:02 / jk
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		SW8260B	04/19/13 23:02 / jk
Surr: Dibromofluoromethane	113	%REC		70-130		SW8260B	04/19/13 23:02 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/19/13 23:02 / jk
Surr: Toluene-d8	111	%REC		80-120		SW8260B	04/19/13 23:02 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-008
Client Sample ID 90125-26. 4/13

Report Date: 04/29/13
Collection Date: 04/16/13 10:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1-Dichloroethene	1.7	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-008
Client Sample ID 90125-26. 4/13

Report Date: 04/29/13
Collection Date: 04/16/13 10:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/19/13 23:37 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 23:37 / jk
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		SW8260B	04/19/13 23:37 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	04/19/13 23:37 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/19/13 23:37 / jk
Surr: Toluene-d8	109	%REC		80-120		SW8260B	04/19/13 23:37 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-009
Client Sample ID 90125-27.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 10:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-009
Client Sample ID: 90125-27.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 10:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/20/13 00:13 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/20/13 00:13 / jk
Surr: 1,2-Dichlorobenzene-d4	115	%REC		80-120		SW8260B	04/20/13 00:13 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	04/20/13 00:13 / jk
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	04/20/13 00:13 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/20/13 00:13 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-010
Client Sample ID 90125-22.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 11:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1-Dichloroethane	6.7	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1-Dichloroethene	18	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-010
Client Sample ID: 90125-22.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 11:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/20/13 00:49 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Tetrachloroethene	15	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Trichloroethene	5.4	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/20/13 00:49 / jk
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	04/20/13 00:49 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	04/20/13 00:49 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/20/13 00:49 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/20/13 00:49 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-011
Client Sample ID 90125-25.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 11:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1-Dichloroethane	9.6	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1-Dichloroethene	33	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-9515
Gillette, WY 888-886-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-011
Client Sample ID 90125-25.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 11:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/20/13 01:24 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Tetrachloroethene	30	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Trichloroethene	6.8	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/20/13 01:24 / jk
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		SW8260B	04/20/13 01:24 / jk
Surr: Dibromofluoromethane	117	%REC		70-130		SW8260B	04/20/13 01:24 / jk
Surr: p-Bromofluorobenzene	118	%REC		80-120		SW8260B	04/20/13 01:24 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/20/13 01:24 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-012
Client Sample ID 90125-21.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 12:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1-Dichloroethane	3.8	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1-Dichloroethene	5.6	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-012
Client Sample ID: 90125-21.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 12:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Methyl ethyl ketone	ND	ug/L		20		SW8260B	04/19/13 17:43 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Tetrachloroethene	2.2	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/19/13 17:43 / jk
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	04/19/13 17:43 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	04/19/13 17:43 / jk
Surr: p-Bromofluorobenzene	117	%REC		80-120		SW8260B	04/19/13 17:43 / jk
Surr: Toluene-d8	109	%REC		80-120		SW8260B	04/19/13 17:43 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-013
Client Sample ID 90125-31.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 12:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-013
Client Sample ID: 90125-31.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 12:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/22/13 22:32 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/22/13 22:32 / jk
Surr: 1,2-Dichlorobenzene-d4	118	%REC		80-120		SW8260B	04/22/13 22:32 / jk
Surr: Dibromofluoromethane	123	%REC		70-130		SW8260B	04/22/13 22:32 / jk
Surr: p-Bromofluorobenzene	115	%REC		80-120		SW8260B	04/22/13 22:32 / jk
Surr: Toluene-d8	106	%REC		80-120		SW8260B	04/22/13 22:32 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-014
Client Sample ID 90125-18.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 13:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1-Dichloroethane	2.6	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1-Dichloroethene	12	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-014
Client Sample ID: 90125-18.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 13:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/22/13 23:08 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Tetrachloroethene	9.0	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Trichloroethene	1.2	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/22/13 23:08 / jk
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		SW8260B	04/22/13 23:08 / jk
Surr: Dibromofluoromethane	114	%REC		70-130		SW8260B	04/22/13 23:08 / jk
Surr: p-Bromofluorobenzene	115	%REC		80-120		SW8260B	04/22/13 23:08 / jk
Surr: Toluene-d8	109	%REC		80-120		SW8260B	04/22/13 23:08 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-015
Client Sample ID 90125-11.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 13:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1-Dichloroethane	4.2	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1-Dichloroethene	1.2	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-015
Client Sample ID 90125-11.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 13:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/22/13 23:43 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Tetrachloroethene	2.5	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Trichloroethene	1.2	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/22/13 23:43 / jk
Surr: 1,2-Dichlorobenzene-d4	116	%REC		80-120		SW8260B	04/22/13 23:43 / jk
Surr: Dibromofluoromethane	118	%REC		70-130		SW8260B	04/22/13 23:43 / jk
Surr: p-Bromofluorobenzene	114	%REC		80-120		SW8260B	04/22/13 23:43 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/22/13 23:43 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-016
Client Sample ID 90125-8.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 14:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1-Dichloroethane	2.6	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1-Dichloroethene	2.1	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-016
Client Sample ID 90125-8.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 14:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 00:19 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Tetrachloroethene	1.5	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Trichloroethene	1.1	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 00:19 / jk
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	04/23/13 00:19 / jk
Surr: Dibromofluoromethane	115	%REC		70-130		SW8260B	04/23/13 00:19 / jk
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	04/23/13 00:19 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/23/13 00:19 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-017
Client Sample ID 90125-Tank A.4/14

Report Date: 04/29/13
Collection Date: 04/17/13 07:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-8515
Gillette, WY 888-886-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-017
Client Sample ID: 90125-Tank A.4/14

Report Date: 04/29/13
Collection Date: 04/17/13 07:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Methyl ethyl ketone	ND	ug/L		20		SW8260B	04/23/13 05:08 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 05:08 / jk
Surr: 1,2-Dichlorobenzene-d4	111	%REC		80-120		SW8260B	04/23/13 05:08 / jk
Surr: Dibromofluoromethane	103	%REC		70-130		SW8260B	04/23/13 05:08 / jk
Surr: p-Bromofluorobenzene	108	%REC		80-120		SW8260B	04/23/13 05:08 / jk
Surr: Toluene-d8	108	%REC		80-120		SW8260B	04/23/13 05:08 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-018
Client Sample ID 90125-13.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 08:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-018
Client Sample ID 90125-13.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 08:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 00:56 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 00:56 / jk
Surr: 1,2-Dichlorobenzene-d4	115	%REC		80-120		SW8260B	04/23/13 00:56 / jk
Surr: Dibromofluoromethane	116	%REC		70-130		SW8260B	04/23/13 00:56 / jk
Surr: p-Bromofluorobenzene	115	%REC		80-120		SW8260B	04/23/13 00:56 / jk
Surr: Toluene-d8	112	%REC		80-120		SW8260B	04/23/13 00:56 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-019
Client Sample ID 90125-15.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 09:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
cis-1,2-Dichloroethene	9.6	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-019
Client Sample ID: 90125-15.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 09:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 01:32 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Trichloroethene	54	ug/L		2.5		SW8260B	04/23/13 20:56 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 01:32 / jk
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	04/23/13 01:32 / jk
Surr: Dibromofluoromethane	115	%REC		70-130		SW8260B	04/23/13 01:32 / jk
Surr: p-Bromofluorobenzene	114	%REC		80-120		SW8260B	04/23/13 01:32 / jk
Surr: Toluene-d8	112	%REC		80-120		SW8260B	04/23/13 01:32 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-020
Client Sample ID 90125-9.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 09:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
cis-1,2-Dichloroethene	2.2	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-020
Client Sample ID 90125-9.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 09:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 02:08 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Trichloroethene	16	ug/L		1.0		SW8260B	04/23/13 15:01 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 02:08 / jk
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	04/23/13 02:08 / jk
Surr: Dibromofluoromethane	118	%REC		70-130		SW8260B	04/23/13 02:08 / jk
Surr: p-Bromofluorobenzene	114	%REC		80-120		SW8260B	04/23/13 02:08 / jk
Surr: Toluene-d8	111	%REC		80-120		SW8260B	04/23/13 02:08 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-021
Client Sample ID 90125-12.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 10:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,1-Dichloroethane	50	ug/L		5.0		SW8260B	04/25/13 05:04 / jk
1,1-Dichloroethene	4.1	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2,4-Trimethylbenzene	410	ug/L		5.0		SW8260B	04/25/13 05:04 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Benzene	15	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
cis-1,2-Dichloroethene	59	ug/L		50		SW8260B	04/23/13 19:44 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Ethylbenzene	400	ug/L		50		SW8260B	04/23/13 19:44 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Isopropylbenzene	190	ug/L		50		SW8260B	04/23/13 19:44 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-021
Client Sample ID 90125-12.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 10:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	93	ug/L		5.0		SW8260B	04/25/13 05:04 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 02:44 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
n-Propylbenzene	270	ug/L		50		SW8260B	04/23/13 19:44 / jk
Naphthalene	120	ug/L		50		SW8260B	04/23/13 19:44 / jk
o-Xylene	1.9	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
p-Isopropyltoluene	2.3	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
sec-Butylbenzene	12	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Tetrachloroethene	1.7	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Trichloroethene	4.5	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Xylenes, Total	93	ug/L		1.0		SW8260B	04/23/13 02:44 / jk
Surr: 1,2-Dichlorobenzene-d4	136	%REC	S	80-120		SW8260B	04/23/13 02:44 / jk
Surr: Dibromofluoromethane	110	%REC		70-130		SW8260B	04/23/13 02:44 / jk
Surr: p-Bromofluorobenzene	100	%REC		80-120		SW8260B	04/23/13 02:44 / jk
Surr: Toluene-d8	119	%REC		80-120		SW8260B	04/23/13 02:44 / jk

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
S - Spike recovery outside of advisory limits.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-022
Client Sample ID 90125-A.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 06:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1-Dichloroethane	1.7	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1-Dichloroethene	8.1	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-022
Client Sample ID: 90125-A.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 06:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Methyl ethyl ketone	ND	ug/L		20		SW8260B	04/23/13 14:26 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Tetrachloroethene	7.3	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Trichloroethene	1.3	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 14:26 / jk
Surr: 1,2-Dichlorobenzene-d4	115	%REC		80-120		SW8260B	04/23/13 14:26 / jk
Surr: Dibromofluoromethane	108	%REC		70-130		SW8260B	04/23/13 14:26 / jk
Surr: p-Bromofluorobenzene	116	%REC		80-120		SW8260B	04/23/13 14:26 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/23/13 14:26 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-023
Client Sample ID 90125-B.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 06:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1-Dichloroethane	3.9	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1-Dichloroethene	5.5	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-023
Client Sample ID: 90125-B.4/13

Report Date: 04/29/13
Collection Date: 04/16/13 06:00
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Methyl ethyl ketone	ND	ug/L		20		SW8260B	04/23/13 13:50 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Tetrachloroethene	1.9	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 13:50 / jk
Surr: 1,2-Dichlorobenzene-d4	114	%REC		80-120		SW8260B	04/23/13 13:50 / jk
Surr: Dibromofluoromethane	112	%REC		70-130		SW8260B	04/23/13 13:50 / jk
Surr: p-Bromofluorobenzene	115	%REC		80-120		SW8260B	04/23/13 13:50 / jk
Surr: Toluene-d8	108	%REC		80-120		SW8260B	04/23/13 13:50 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-024
Client Sample ID 90125-6.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 06:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
cis-1,2-Dichloroethene	9.4	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-024
Client Sample ID: 90125-6.4/13

Report Date: 04/29/13
Collection Date: 04/17/13 06:30
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/23/13 04:32 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Trichloroethene	54	ug/L		2.5		SW8260B	04/23/13 20:20 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/23/13 04:32 / jk
Surr: 1,2-Dichlorobenzene-d4	110	%REC		80-120		SW8260B	04/23/13 04:32 / jk
Surr: Dibromofluoromethane	111	%REC		70-130		SW8260B	04/23/13 04:32 / jk
Surr: p-Bromofluorobenzene	107	%REC		80-120		SW8260B	04/23/13 04:32 / jk
Surr: Toluene-d8	110	%REC		80-120		SW8260B	04/23/13 04:32 / jk

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-025
Client Sample ID Trip Blank 7305

Report Date: 04/29/13
Collection Date: 04/17/13
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1,1-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1,2-Trichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,1-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2,3-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2,3-Trichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2,4-Trichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2,4-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2-Dibromoethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2-Dichloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,3,5-Trimethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,3-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,3-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
1,4-Dichlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
2,2-Dichloropropane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
2-Chloroethyl vinyl ether	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
2-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
4-Chlorotoluene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Benzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Bromobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Bromochloromethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Bromodichloromethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Bromoform	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Bromomethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Carbon tetrachloride	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Chlorobenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Chlorodibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Chloroethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Chloroform	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Chloromethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
cis-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
cis-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Dibromomethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Dichlorodifluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Ethylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Hexachlorobutadiene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Isopropylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-025
Client Sample ID: Trip Blank 7305

Report Date: 04/29/13
Collection Date: 04/17/13
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
m+p-Xylenes	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Methyl ethyl ketone	ND	ug/L		10		SW8260B	04/22/13 14:50 / jk
Methyl tert-butyl ether (MTBE)	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Methylene chloride	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
n-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
n-Propylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Naphthalene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
o-Xylene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
p-Isopropyltoluene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
sec-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Styrene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
tert-Butylbenzene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Tetrachloroethene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Toluene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
trans-1,2-Dichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
trans-1,3-Dichloropropene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Trichloroethene	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Trichlorofluoromethane	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Vinyl chloride	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Xylenes, Total	ND	ug/L		1.0		SW8260B	04/22/13 14:50 / jk
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	04/22/13 14:50 / jk
Surr: Dibromofluoromethane	101	%REC		70-130		SW8260B	04/22/13 14:50 / jk
Surr: p-Bromofluorobenzene	113	%REC		80-120		SW8260B	04/22/13 14:50 / jk
Surr: Toluene-d8	106	%REC		80-120		SW8260B	04/22/13 14:50 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-686-7175 • Rapid City, SD 800-672-1225 • College Station, TX 888-680-2218

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040638-026
Client Sample ID Temp Blank

Report Date: 04/29/13
Collection Date: Not Provided
Date Received: 04/19/13
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Temperature	2.7	°C				E170.1	04/24/13 09:53 / smm

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: 19-Apr-13_LCS_4	67	Laboratory Control Sample				Run: 5975VOC1_130419A				04/19/13 09:45
1,1,1,2-Tetrachloroethane		9.9	ug/L	1.0	99	70	130			
1,1,1-Trichloroethane		9.0	ug/L	1.0	90	70	130			
1,1,2,2-Tetrachloroethane		10	ug/L	1.0	102	70	130			
1,1,2-Trichloroethane		10	ug/L	1.0	104	70	130			
1,1-Dichloroethane		11	ug/L	1.0	106	70	130			
1,1-Dichloroethene		8.4	ug/L	1.0	84	70	130			
1,1-Dichloropropene		10	ug/L	1.0	102	70	130			
1,2,3-Trichlorobenzene		11	ug/L	1.0	109	70	130			
1,2,3-Trichloropropane		10	ug/L	1.0	101	70	130			
1,2,4-Trichlorobenzene		11	ug/L	1.0	112	70	130			
1,2,4-Trimethylbenzene		10	ug/L	1.0	103	70	130			
1,2-Dibromoc-3-chloropropane		9.1	ug/L	1.0	91	70	130			
1,2-Dibromocethane		10	ug/L	1.0	102	70	130			
1,2-Dichlorobenzene		10.0	ug/L	1.0	100	70	130			
1,2-Dichloroethane		8.6	ug/L	1.0	86	70	130			
1,2-Dichloropropane		11	ug/L	1.0	106	70	130			
1,3,5-Trimethylbenzene		10	ug/L	1.0	104	70	130			
1,3-Dichlorobenzene		10	ug/L	1.0	101	70	130			
1,3-Dichloropropane		10	ug/L	1.0	104	70	130			
1,4-Dichlorobenzene		10	ug/L	1.0	102	70	130			
2,2-Dichloropropane		10	ug/L	1.0	102	60	140			
2-Chloroethyl vinyl ether		11	ug/L	1.0	108	70	130			
2-Chlorotoluene		9.9	ug/L	1.0	99	70	130			
4-Chlorotoluene		10	ug/L	1.0	102	70	130			
Benzene		11	ug/L	1.0	106	70	130			
Bromobenzene		11	ug/L	1.0	105	70	130			
Bromochloromethane		10	ug/L	1.0	104	70	130			
Bromodichloromethane		8.8	ug/L	1.0	88	70	130			
Bromoform		9.8	ug/L	1.0	98	70	130			
Bromomethane		14	ug/L	1.0	144	70	130			S
Carbon tetrachloride		8.8	ug/L	1.0	88	70	130			
Chlorobenzene		9.9	ug/L	1.0	99	70	130			
Chlorodibromomethane		9.4	ug/L	1.0	94	70	130			
Chloroethane		9.7	ug/L	1.0	97	70	130			
Chloroform		9.2	ug/L	1.0	92	70	130			
Chloromethane		11	ug/L	1.0	105	70	130			
cis-1,2-Dichloroethene		10.0	ug/L	1.0	100	70	130			
cis-1,3-Dichloropropene		10	ug/L	1.0	104	70	130			
Dibromomethane		9.7	ug/L	1.0	97	70	130			
Dichlorodifluoromethane		6.0	ug/L	1.0	60	70	130			S
Ethylbenzene		10	ug/L	1.0	100	70	130			
Hexachlorobutadiene		11	ug/L	1.0	106	70	130			
Isopropylbenzene		10	ug/L	1.0	100	70	130			
m+p-Xylenes		20	ug/L	1.0	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: 19-Apr-13_LCS_4										04/19/13 09:45
67 Laboratory Control Sample										Run: 5975VOC1_130419A
Methyl ethyl ketone	99	ug/L	10	99	70	130				
Methyl tert-butyl ether (MTBE)	10	ug/L	1.0	102	70	130				
Methylene chloride	8.6	ug/L	1.0	86	70	130				
n-Butylbenzene	11	ug/L	1.0	105	70	130				
n-Propylbenzene	9.8	ug/L	1.0	98	70	130				
Naphthalene	12	ug/L	1.0	119	70	130				
o-Xylene	9.6	ug/L	1.0	96	70	130				
p-Isopropyltoluene	11	ug/L	1.0	115	70	130				
sec-Butylbenzene	9.8	ug/L	1.0	98	70	130				
Styrene	11	ug/L	1.0	107	70	130				
tert-Butylbenzene	10	ug/L	1.0	104	70	130				
Tetrachloroethene	10	ug/L	1.0	103	70	130				
Toluene	10	ug/L	1.0	100	70	130				
trans-1,2-Dichloroethene	11	ug/L	1.0	110	70	130				
trans-1,3-Dichloropropene	11	ug/L	1.0	108	70	130				
Trichloroethene	10	ug/L	1.0	100	70	130				
Trichlorofluoromethane	7.4	ug/L	1.0	74	70	130				
Vinyl chloride	8.1	ug/L	1.0	81	70	130				
Xylenes, Total	29	ug/L	1.0	98	70	130				
Surr: 1,2-Dichlorobenzene-d4			1.0	102	80	120				
Surr: Dibromofluoromethane			1.0	91	70	130				
Surr: p-Bromofluorobenzene			1.0	103	80	130				
Surr: Toluene-d8			1.0	112	80	120				
Sample ID: 19-Apr-13_MBLK_6										04/19/13 10:56
67 Method Blank										Run: 5975VOC1_130419A
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0							
1,1,1-Trichloroethane	ND	ug/L	1.0							
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0							
1,1,2-Trichloroethane	ND	ug/L	1.0							
1,1-Dichloroethane	ND	ug/L	1.0							
1,1-Dichloroethene	ND	ug/L	1.0							
1,1-Dichloropropene	ND	ug/L	1.0							
1,2,3-Trichlorobenzene	ND	ug/L	1.0							
1,2,3-Trichloropropane	ND	ug/L	1.0							
1,2,4-Trichlorobenzene	ND	ug/L	1.0							
1,2,4-Trimethylbenzene	ND	ug/L	1.0							
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0							
1,2-Dibromoethane	ND	ug/L	1.0							
1,2-Dichlorobenzene	ND	ug/L	1.0							
1,2-Dichloroethane	ND	ug/L	1.0							
1,2-Dichloropropane	ND	ug/L	1.0							
1,3,5-Trimethylbenzene	ND	ug/L	1.0							
1,3-Dichlorobenzene	ND	ug/L	1.0							
1,3-Dichloropropane	ND	ug/L	1.0							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-888-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: 19-Apr-13_MBLK_6										04/19/13 10:56
67 Method Blank										Run: 5975VOC1_130419A
1,4-Dichlorobenzene		ND	ug/L	1.0						
2,2-Dichloropropane		ND	ug/L	1.0						
2-Chloroethyl vinyl ether		ND	ug/L	1.0						
2-Chlorotoluene		ND	ug/L	1.0						
4-Chlorotoluene		ND	ug/L	1.0						
Benzene		ND	ug/L	1.0						
Bromobenzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
Hexachlorobutadiene		ND	ug/L	1.0						
Isopropylbenzene		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	10						
Methyl tert-butyl ether (MTBE)		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
n-Butylbenzene		ND	ug/L	1.0						
n-Propylbenzene		ND	ug/L	1.0						
Naphthalene		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
p-Isopropyltoluene		ND	ug/L	1.0						
sec-Butylbenzene		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
tert-Butylbenzene		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
Xylenes, Total		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: 19-Apr-13_MBLK_6	67	Method Blank				Run: 5975VOC1_130419A				04/19/13 10:56
Surr: 1,2-Dichlorobenzene-d4				1.0	112	80	120			
Surr: Dibromofluoromethane				1.0	96	70	130			
Surr: p-Bromofluorobenzene				1.0	111	80	120			
Surr: Toluene-d8				1.0	106	80	120			
Sample ID: C13040638-012AMS	67	Sample Matrix Spike				Run: 5975VOC1_130419A				04/19/13 18:54
1,1,1,2-Tetrachloroethane		210	ug/L	10	106	70	130			
1,1,1-Trichloroethane		230	ug/L	10	115	70	130			
1,1,2,2-Tetrachloroethane		210	ug/L	10	106	70	130			
1,1,2-Trichloroethane		210	ug/L	10	103	70	130			
1,1-Dichloroethane		240	ug/L	10	122	70	130			
1,1-Dichloroethene		220	ug/L	10	108	70	130			
1,1-Dichloropropene		220	ug/L	10	112	70	130			
1,2,3-Trichlorobenzene		200	ug/L	10	102	70	130			
1,2,3-Trichloropropane		210	ug/L	10	107	70	130			
1,2,4-Trichlorobenzene		190	ug/L	10	96	70	130			
1,2,4-Trimethylbenzene		210	ug/L	10	105	70	130			
1,2-Dibromo-3-chloropropane		210	ug/L	10	105	70	130			
1,2-Dibromoethane		210	ug/L	10	103	70	130			
1,2-Dichlorobenzene		210	ug/L	10	103	70	130			
1,2-Dichloroethane		220	ug/L	10	110	70	130			
1,2-Dichloropropane		220	ug/L	10	109	70	130			
1,3,5-Trimethylbenzene		210	ug/L	10	105	70	130			
1,3-Dichlorobenzene		200	ug/L	10	100	70	130			
1,3-Dichloropropane		220	ug/L	10	108	70	130			
1,4-Dichlorobenzene		210	ug/L	10	103	70	130			
2,2-Dichloropropane		240	ug/L	10	120	70	130			
2-Chloroethyl vinyl ether		26	ug/L	10	13	70	130			S
2-Chlorotoluene		190	ug/L	10	96	70	130			
4-Chlorotoluene		200	ug/L	10	98	70	130			
Benzene		220	ug/L	10	108	70	130			
Bromobenzene		210	ug/L	10	103	70	130			
Bromochloromethane		240	ug/L	10	118	70	130			
Bromodichloromethane		220	ug/L	10	108	70	130			
Bromoform		210	ug/L	10	104	70	130			
Bromomethane		280	ug/L	10	142	70	130			S
Carbon tetrachloride		230	ug/L	10	115	70	130			
Chlorobenzene		200	ug/L	10	98	70	130			
Chlorodibromomethane		210	ug/L	10	104	70	130			
Chloroethane		230	ug/L	10	117	70	130			
Chloroform		240	ug/L	10	120	70	130			
Chloromethane		180	ug/L	10	90	70	130			
cis-1,2-Dichloroethene		220	ug/L	10	112	70	130			
cis-1,3-Dichloropropene		220	ug/L	10	108	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: C13040638-012AMS 67 Sample Matrix Spike										Run: 5975VOC1_130419A 04/19/13 18:54
Dibromomethane		230	ug/L	10	113	70	130			
Dichlorodifluoromethane		120	ug/L	10	60	70	130			S
Ethylbenzene		200	ug/L	10	99	70	130			
Hexachlorobutadiene		210	ug/L	10	105	70	130			
Isopropylbenzene		200	ug/L	10	98	70	130			
m+p-Xylenes		390	ug/L	10	97	70	130			
Methyl ethyl ketone		2000	ug/L	200	100	70	130			
Methyl tert-butyl ether (MTBE)		230	ug/L	10	114	70	130			
Methylene chloride		220	ug/L	10	111	70	130			
n-Butylbenzene		210	ug/L	10	106	70	130			
n-Propylbenzene		190	ug/L	10	96	70	130			
Naphthalene		210	ug/L	10	103	70	130			
o-Xylene		200	ug/L	10	98	70	130			
p-Isopropyltoluene		230	ug/L	10	114	70	130			
sec-Butylbenzene		190	ug/L	10	97	70	130			
Styrene		210	ug/L	10	106	70	130			
tert-Butylbenzene		210	ug/L	10	103	70	130			
Tetrachloroethene		200	ug/L	10	100	70	130			
Toluene		200	ug/L	10	98	70	130			
trans-1,2-Dichloroethene		220	ug/L	10	108	70	130			
trans-1,3-Dichloropropene		230	ug/L	10	117	70	130			
Trichloroethane		200	ug/L	10	101	70	130			
Trichlorofluoromethane		200	ug/L	10	98	70	130			
Vinyl chloride		180	ug/L	10	91	70	130			
Xylenes, Total		590	ug/L	10	98	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	108	80	120			
Surr: Dibromofluoromethane				1.0	112	70	130			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	117	80	120			
Sample ID: C13040638-012AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130419A 04/19/13 19:29
1,1,1,2-Tetrachloroethane		190	ug/L	10	93	70	130	14	20	
1,1,1-Trichloroethane		190	ug/L	10	97	70	130	17	20	
1,1,2,2-Tetrachloroethane		180	ug/L	10	88	70	130	18	20	
1,1,2-Trichloroethane		180	ug/L	10	92	70	130	12	20	
1,1-Dichloroethane		210	ug/L	10	105	70	130	14	20	
1,1-Dichloroethene		190	ug/L	10	94	70	130	13	20	
1,1-Dichloropropene		200	ug/L	10	99	70	130	12	20	
1,2,3-Trichlorobenzene		190	ug/L	10	96	70	130	5.7	20	
1,2,3-Trichloropropane		190	ug/L	10	93	70	130	14	20	
1,2,4-Trichlorobenzene		180	ug/L	10	91	70	130	6.0	20	
1,2,4-Trimethylbenzene		190	ug/L	10	94	70	130	12	20	
1,2-Dibromo-3-chloropropane		180	ug/L	10	88	70	130	17	20	
1,2-Dibromocethane		180	ug/L	10	92	70	130	11	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: C13040638-012AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130419A 04/19/13 19:29
1,2-Dichlorobenzene	180	ug/L	10	89	70	130	15	20		
1,2-Dichloroethane	180	ug/L	10	92	70	130	18	20		
1,2-Dichloropropane	190	ug/L	10	94	70	130	14	20		
1,3,5-Trimethylbenzene	190	ug/L	10	94	70	130	12	20		
1,3-Dichlorobenzene	180	ug/L	10	88	70	130	14	20		
1,3-Dichloropropane	190	ug/L	10	93	70	130	14	20		
1,4-Dichlorobenzene	180	ug/L	10	90	70	130	13	20		
2,2-Dichloropropane	200	ug/L	10	100	70	130	18	20		
2-Chloroethyl vinyl ether	19	ug/L	10	9	70	130	31	20		SR
2-Chlorotoluene	170	ug/L	10	87	70	130	10	20		
4-Chlorotoluene	180	ug/L	10	88	70	130	11	20		
Benzene	190	ug/L	10	95	70	130	12	20		
Bromobenzene	180	ug/L	10	91	70	130	12	20		
Bromochloromethane	200	ug/L	10	98	70	130	19	20		
Bromodichloromethane	180	ug/L	10	91	70	130	17	20		
Bromoform	180	ug/L	10	89	70	130	16	20		
Bromomethane	280	ug/L	10	142	70	130	0.3	20		S
Carbon tetrachloride	190	ug/L	10	97	70	130	17	20		
Chlorobenzene	180	ug/L	10	88	70	130	11	20		
Chlorodibromomethane	180	ug/L	10	90	70	130	15	20		
Chloroethane	210	ug/L	10	104	70	130	11	20		
Chloroform	200	ug/L	10	98	70	130	19	20		
Chloromethane	190	ug/L	10	94	70	130	4.8	20		
cis-1,2-Dichloroethene	190	ug/L	10	96	70	130	15	20		
cis-1,3-Dichloropropene	190	ug/L	10	94	70	130	14	20		
Dibromomethane	190	ug/L	10	95	70	130	17	20		
Dichlorodifluoromethane	110	ug/L	10	56	70	130	6.2	20		S
Ethylbenzene	180	ug/L	10	91	70	130	8.0	20		
Hexachlorobutadiene	190	ug/L	10	96	70	130	9.2	20		
Isopropylbenzene	180	ug/L	10	88	70	130	9.9	20		
m+p-Xylenes	350	ug/L	10	88	70	130	9.7	20		
Methyl ethyl ketone	1800	ug/L	200	91	70	130	9.6	20		
Methyl tert-butyl ether (MTBE)	190	ug/L	10	97	70	130	16	20		
Methylene chloride	190	ug/L	10	94	70	130	17	20		
n-Butylbenzene	190	ug/L	10	94	70	130	12	20		
n-Propylbenzene	180	ug/L	10	88	70	130	9.6	20		
Naphthalene	190	ug/L	10	94	70	130	9.8	20		
o-Xylene	180	ug/L	10	89	70	130	9.4	20		
p-Isopropyltoluene	200	ug/L	10	101	70	130	12	20		
sec-Butylbenzene	170	ug/L	10	87	70	130	11	20		
Styrene	190	ug/L	10	96	70	130	9.9	20		
tert-Butylbenzene	190	ug/L	10	93	70	130	10	20		
Tetrachloroethene	180	ug/L	10	91	70	130	8.8	20		
Toluene	180	ug/L	10	88	70	130	10	20		

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172698
Sample ID: C13040638-012AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130419A 04/19/13 19:29
trans-1,2-Dichloroethene	200		ug/L	10	98	70	130	9.7	20	
trans-1,3-Dichloropropene	200		ug/L	10	102	70	130	14	20	
Trichloroethene	180		ug/L	10	90	70	130	11	20	
Trichlorofluoromethane	170		ug/L	10	86	70	130	14	20	
Vinyl chloride	170		ug/L	10	84	70	130	8.2	20	
Xylenes, Total	530		ug/L	10	89	70	130	9.6	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	103	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	102	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	105	80	120	0.0	10	
Surr: Toluene-d8				1.0	116	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: 22-Apr-13_LCS_4										04/22/13 12:28
67 Laboratory Control Sample										Run: 5975VOC1_130422A
1,1,1,2-Tetrachloroethane	11	ug/L	1.0	105	70	130				
1,1,1-Trichloroethane	10	ug/L	1.0	104	70	130				
1,1,2,2-Tetrachloroethane	11	ug/L	1.0	107	70	130				
1,1,2-Trichloroethane	11	ug/L	1.0	108	70	130				
1,1-Dichloroethane	12	ug/L	1.0	117	70	130				
1,1-Dichloroethene	9.7	ug/L	1.0	97	70	130				
1,1-Dichloropropene	11	ug/L	1.0	111	70	130				
1,2,3-Trichlorobenzene	10	ug/L	1.0	104	70	130				
1,2,3-Trichloropropane	10	ug/L	1.0	105	70	130				
1,2,4-Trichlorobenzene	10	ug/L	1.0	105	70	130				
1,2,4-Trimethylbenzene	11	ug/L	1.0	109	70	130				
1,2-Dibromo-3-chloropropane	9.0	ug/L	1.0	90	70	130				
1,2-Dibromoethane	11	ug/L	1.0	106	70	130				
1,2-Dichlorobenzene	10	ug/L	1.0	104	70	130				
1,2-Dichloroethane	9.5	ug/L	1.0	95	70	130				
1,2-Dichloropropane	11	ug/L	1.0	114	70	130				
1,3,5-Trimethylbenzene	11	ug/L	1.0	110	70	130				
1,3-Dichlorobenzene	11	ug/L	1.0	106	70	130				
1,3-Dichloropropane	10	ug/L	1.0	105	70	130				
1,4-Dichlorobenzene	11	ug/L	1.0	109	70	130				
2,2-Dichloropropane	12	ug/L	1.0	118	60	140				
2-Chloroethyl vinyl ether	11	ug/L	1.0	112	70	130				
2-Chlorotoluene	10	ug/L	1.0	104	70	130				
4-Chlorotoluene	11	ug/L	1.0	106	70	130				
Benzene	12	ug/L	1.0	116	70	130				
Bromobenzene	11	ug/L	1.0	109	70	130				
Bromochloromethane	11	ug/L	1.0	114	70	130				
Bromodichloromethane	9.8	ug/L	1.0	98	70	130				
Bromoform	10	ug/L	1.0	105	70	130				
Bromomethane	11	ug/L	1.0	112	70	130				
Carbon tetrachloride	10	ug/L	1.0	102	70	130				
Chlorobenzene	11	ug/L	1.0	105	70	130				
Chlorodibromomethane	9.9	ug/L	1.0	99	70	130				
Chloroethane	10	ug/L	1.0	105	70	130				
Chloroform	11	ug/L	1.0	105	70	130				
Chloromethane	12	ug/L	1.0	117	70	130				
cis-1,2-Dichloroethene	11	ug/L	1.0	110	70	130				
cis-1,3-Dichloropropene	11	ug/L	1.0	111	70	130				
Dibromomethane	10	ug/L	1.0	104	70	130				
Dichlorodifluoromethane	8.4	ug/L	1.0	84	70	130				
Ethylbenzene	11	ug/L	1.0	106	70	130				
Hexachlorobutadiene	11	ug/L	1.0	108	70	130				
Isopropylbenzene	10	ug/L	1.0	105	70	130				
m+p-Xylenes	21	ug/L	1.0	104	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: 22-Apr-13_LCS_4										04/22/13 12:28
67 Laboratory Control Sample										Run: 5975VOC1_130422A
Methyl ethyl ketone	100	ug/L	10	102	70	130				
Methyl tert-butyl ether (MTBE)	11	ug/L	1.0	114	70	130				
Methylene chloride	9.9	ug/L	1.0	99	70	130				
n-Butylbenzene	11	ug/L	1.0	112	70	130				
n-Propylbenzene	10	ug/L	1.0	102	70	130				
Naphthalene	11	ug/L	1.0	108	70	130				
o-Xylene	10	ug/L	1.0	102	70	130				
p-Isopropyltoluene	12	ug/L	1.0	122	70	130				
sec-Butylbenzene	10	ug/L	1.0	102	70	130				
Styrene	11	ug/L	1.0	111	70	130				
tert-Butylbenzene	11	ug/L	1.0	108	70	130				
Tetrachloroethene	11	ug/L	1.0	108	70	130				
Toluene	11	ug/L	1.0	105	70	130				
trans-1,2-Dichloroethene	12	ug/L	1.0	121	70	130				
trans-1,3-Dichloropropene	12	ug/L	1.0	116	70	130				
Trichloroethene	11	ug/L	1.0	108	70	130				
Trichlorofluoromethane	8.5	ug/L	1.0	85	70	130				
Vinyl chloride	9.4	ug/L	1.0	94	70	130				
Xylenes, Total	31	ug/L	1.0	103	70	130				
Surr: 1,2-Dichlorobenzene-d4			1.0	101	80	120				
Surr: Dibromofluoromethane			1.0	94	70	130				
Surr: p-Bromofluorobenzene			1.0	102	80	130				
Surr: Toluene-d8			1.0	115	80	120				
Sample ID: 22-Apr-13_MBLK_6										04/22/13 13:39
67 Method Blank										Run: 5975VOC1_130422A
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0							
1,1,1-Trichloroethane	ND	ug/L	1.0							
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0							
1,1,2-Trichloroethane	ND	ug/L	1.0							
1,1-Dichloroethane	ND	ug/L	1.0							
1,1-Dichloroethene	ND	ug/L	1.0							
1,1-Dichloropropene	ND	ug/L	1.0							
1,2,3-Trichlorobenzene	ND	ug/L	1.0							
1,2,3-Trichloropropane	ND	ug/L	1.0							
1,2,4-Trichlorobenzene	ND	ug/L	1.0							
1,2,4-Trimethylbenzene	ND	ug/L	1.0							
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0							
1,2-Dibromoethane	ND	ug/L	1.0							
1,2-Dichlorobenzene	ND	ug/L	1.0							
1,2-Dichloroethane	ND	ug/L	1.0							
1,2-Dichloropropane	ND	ug/L	1.0							
1,3,5-Trimethylbenzene	ND	ug/L	1.0							
1,3-Dichlorobenzene	ND	ug/L	1.0							
1,3-Dichloropropane	ND	ug/L	1.0							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: 22-Apr-13_MBLK_6										Run: 5975VOC1_130422A
67 Method Blank										04/22/13 13:39
1,4-Dichlorobenzene		ND	ug/L		1.0					
2,2-Dichloropropane		ND	ug/L		1.0					
2-Chloroethyl vinyl ether		ND	ug/L		1.0					
2-Chlorotoluene		ND	ug/L		1.0					
4-Chlorotoluene		ND	ug/L		1.0					
Benzene		ND	ug/L		1.0					
Bromobenzene		ND	ug/L		1.0					
Bromochloromethane		ND	ug/L		1.0					
Bromodichloromethane		ND	ug/L		1.0					
Bromoform		ND	ug/L		1.0					
Bromomethane		ND	ug/L		1.0					
Carbon tetrachloride		ND	ug/L		1.0					
Chlorobenzene		ND	ug/L		1.0					
Chlorodibromomethane		ND	ug/L		1.0					
Chloroethane		ND	ug/L		1.0					
Chloroform		ND	ug/L		1.0					
Chloromethane		ND	ug/L		1.0					
cis-1,2-Dichloroethene		ND	ug/L		1.0					
cis-1,3-Dichloropropene		ND	ug/L		1.0					
Dibromomethane		ND	ug/L		1.0					
Dichlorodifluoromethane		ND	ug/L		1.0					
Ethylbenzene		ND	ug/L		1.0					
Hexachlorobutadiene		ND	ug/L		1.0					
Isopropylbenzene		ND	ug/L		1.0					
m+p-Xylenes		ND	ug/L		1.0					
Methyl ethyl ketone		ND	ug/L		10					
Methyl tert-butyl ether (MTBE)		ND	ug/L		1.0					
Methylene chloride		ND	ug/L		1.0					
n-Butylbenzene		ND	ug/L		1.0					
n-Propylbenzene		ND	ug/L		1.0					
Naphthalene		ND	ug/L		1.0					
o-Xylene		ND	ug/L		1.0					
p-Isopropyltoluene		ND	ug/L		1.0					
sec-Butylbenzene		ND	ug/L		1.0					
Styrene		ND	ug/L		1.0					
tert-Butylbenzene		ND	ug/L		1.0					
Tetrachloroethene		ND	ug/L		1.0					
Toluene		ND	ug/L		1.0					
trans-1,2-Dichloroethene		ND	ug/L		1.0					
trans-1,3-Dichloropropene		ND	ug/L		1.0					
Trichloroethene		ND	ug/L		1.0					
Trichlorofluoromethane		ND	ug/L		1.0					
Vinyl chloride		ND	ug/L		1.0					
Xylenes, Total		ND	ug/L		1.0					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: 22-Apr-13_MBLK_6	67	Method Blank		Run: 5975VOC1_130422A				04/22/13 13:39		
Surr: 1,2-Dichlorobenzene-d4				1.0	113	80	120			
Surr: Dibromofluoromethane				1.0	98	70	130			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	107	80	120			
Sample ID: C13040653-003AMS	67	Sample Matrix Spike		Run: 5975VOC1_130422A				04/22/13 19:34		
1,1,1,2-Tetrachloroethane	210	ug/L		10	104	70	130			
1,1,1-Trichloroethane	250	ug/L		10	123	70	130			
1,1,2,2-Tetrachloroethane	200	ug/L		10	100	70	130			
1,1,2-Trichloroethane	220	ug/L		10	108	70	130			
1,1-Dichloroethane	250	ug/L		10	127	70	130			
1,1-Dichloroethene	240	ug/L		10	120	70	130			
1,1-Dichloropropene	240	ug/L		10	120	70	130			
1,2,3-Trichlorobenzene	190	ug/L		10	97	70	130			
1,2,3-Trichloropropane	200	ug/L		10	100	70	130			
1,2,4-Trichlorobenzene	180	ug/L		10	92	70	130			
1,2,4-Trimethylbenzene	210	ug/L		10	105	70	130			
1,2-Dibromo-3-chloropropane	200	ug/L		10	100	70	130			
1,2-Dibromoethane	220	ug/L		10	108	70	130			
1,2-Dichlorobenzene	200	ug/L		10	100	70	130			
1,2-Dichloroethane	220	ug/L		10	111	70	130			
1,2-Dichloropropane	200	ug/L		10	99	70	130			
1,3,5-Trimethylbenzene	210	ug/L		10	106	70	130			
1,3-Dichlorobenzene	200	ug/L		10	100	70	130			
1,3-Dichloropropane	220	ug/L		10	111	70	130			
1,4-Dichlorobenzene	210	ug/L		10	104	70	130			
2,2-Dichloropropane	240	ug/L		10	122	70	130			
2-Chloroethyl vinyl ether	ND	ug/L		10		70	130			S
2-Chlorotoluene	190	ug/L		10	96	70	130			
4-Chlorotoluene	200	ug/L		10	99	70	130			
Benzene	220	ug/L		10	108	70	130			
Bromobenzene	200	ug/L		10	100	70	130			
Bromochloromethane	240	ug/L		10	118	70	130			
Bromodichloromethane	220	ug/L		10	108	70	130			
Bromoform	200	ug/L		10	100	70	130			
Bromomethane	170	ug/L		10	87	70	130			
Carbon tetrachloride	250	ug/L		10	124	70	130			
Chlorobenzene	210	ug/L		10	103	70	130			
Chlorodibromomethane	220	ug/L		10	110	70	130			
Chloroethane	270	ug/L		10	133	70	130			S
Chloroform	240	ug/L		10	121	70	130			
Chloromethane	190	ug/L		10	95	70	130			
cis-1,2-Dichloroethene	210	ug/L		10	106	70	130			
cis-1,3-Dichloropropene	200	ug/L		10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: C13040653-003AMS	67	Sample Matrix Spike		Run: 5975VOC1_130422A				04/22/13 19:34		
Dibromomethane		230	ug/L	10	113	70	130			
Dichlorodifluoromethane		210	ug/L	10	103	70	130			
Ethylbenzene		210	ug/L	10	106	70	130			
Hexachlorobutadiene		210	ug/L	10	104	70	130			
Isopropylbenzene		200	ug/L	10	98	70	130			
m+p-Xylenes		420	ug/L	10	106	70	130			
Methyl ethyl ketone		2000	ug/L	200	100	70	130			
Methyl tert-butyl ether (MTBE)		240	ug/L	10	119	70	130			
Methylene chloride		240	ug/L	10	119	70	130			
n-Butylbenzene		210	ug/L	10	106	70	130			
n-Propylbenzene		200	ug/L	10	98	70	130			
Naphthalene		180	ug/L	10	92	70	130			
o-Xylene		210	ug/L	10	106	70	130			
p-Isopropyltoluene		230	ug/L	10	116	70	130			
sec-Butylbenzene		200	ug/L	10	98	70	130			
Styrene		230	ug/L	10	114	70	130			
tert-Butylbenzene		210	ug/L	10	104	70	130			
Tetrachloroethene		210	ug/L	10	106	70	130			
Toluene		210	ug/L	10	104	70	130			
trans-1,2-Dichloroethene		240	ug/L	10	118	70	130			
trans-1,3-Dichloropropene		230	ug/L	10	114	70	130			
Trichloroethene		200	ug/L	10	99	70	130			
Trichlorofluoromethane		230	ug/L	10	114	70	130			
Vinyl chloride		220	ug/L	10	108	70	130			
Xylenes, Total		630	ug/L	10	106	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	112	70	130			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	119	80	120			
Sample ID: C13040653-003AMSD	67	Sample Matrix Spike Duplicate		Run: 5975VOC1_130422A				04/22/13 20:10		
1,1,1,2-Tetrachloroethane		190	ug/L	10	96	70	130	8.4	20	
1,1,1-Trichloroethane		220	ug/L	10	110	70	130	12	20	
1,1,2,2-Tetrachloroethane		180	ug/L	10	92	70	130	9.2	20	
1,1,2-Trichloroethane		200	ug/L	10	100	70	130	7.7	20	
1,1-Dichloroethane		230	ug/L	10	117	70	130	8.2	20	
1,1-Dichloroethene		220	ug/L	10	109	70	130	9.8	20	
1,1-Dichloropropene		220	ug/L	10	109	70	130	9.8	20	
1,2,3-Trichlorobenzene		190	ug/L	10	94	70	130	3.8	20	
1,2,3-Trichloropropane		180	ug/L	10	92	70	130	7.9	20	
1,2,4-Trichlorobenzene		180	ug/L	10	88	70	130	5.3	20	
1,2,4-Trimethylbenzene		190	ug/L	10	96	70	130	8.8	20	
1,2-Dibromo-3-chloropropane		180	ug/L	10	92	70	130	8.4	20	
1,2-Dibromoethane		200	ug/L	10	99	70	130	8.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: C13040653-003AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130422A 04/22/13 20:10
1,2-Dichlorobenzene	190	ug/L	10	94	70	130	6.6	20		
1,2-Dichloroethane	200	ug/L	10	100	70	130	9.8	20		
1,2-Dichloropropane	180	ug/L	10	92	70	130	7.1	20		
1,3,5-Trimethylbenzene	190	ug/L	10	97	70	130	8.7	20		
1,3-Dichlorobenzene	180	ug/L	10	92	70	130	8.3	20		
1,3-Dichloropropane	210	ug/L	10	104	70	130	6.7	20		
1,4-Dichlorobenzene	190	ug/L	10	95	70	130	9.3	20		
2,2-Dichloropropane	220	ug/L	10	109	70	130	11	20		
2-Chloroethyl vinyl ether	ND	ug/L	10		70	130		20		S
2-Chlorotoluene	180	ug/L	10	88	70	130	8.7	20		
4-Chlorotoluene	180	ug/L	10	92	70	130	7.5	20		
Benzene	200	ug/L	10	99	70	130	8.1	20		
Bromobenzene	190	ug/L	10	94	70	130	6.2	20		
Bromochloromethane	220	ug/L	10	109	70	130	7.8	20		
Bromodichloromethane	190	ug/L	10	97	70	130	11	20		
Bromoform	180	ug/L	10	91	70	130	9.6	20		
Bromomethane	210	ug/L	10	103	70	130	16	20		
Carbon tetrachloride	220	ug/L	10	110	70	130	12	20		
Chlorobenzene	190	ug/L	10	94	70	130	8.9	20		
Chlorodibromomethane	200	ug/L	10	100	70	130	9.5	20		
Chloroethane	260	ug/L	10	131	70	130	1.2	20		S
Chloroform	220	ug/L	10	108	70	130	11	20		
Chloromethane	260	ug/L	10	130	70	130	31	20		R
cis-1,2-Dichloroethene	200	ug/L	10	100	70	130	5.8	20		
cis-1,3-Dichloropropene	190	ug/L	10	95	70	130	6.1	20		
Dibromomethane	200	ug/L	10	100	70	130	12	20		
Dichlorodifluoromethane	190	ug/L	10	97	70	130	6.0	20		
Ethylbenzene	200	ug/L	10	98	70	130	8.3	20		
Hexachlorobutadiene	190	ug/L	10	96	70	130	8.0	20		
Isopropylbenzene	180	ug/L	10	90	70	130	8.5	20		
m+p-Xylenes	390	ug/L	10	97	70	130	8.1	20		
Methyl ethyl ketone	1800	ug/L	200	90	70	130	11	20		
Methyl tert-butyl ether (MTBE)	230	ug/L	10	115	70	130	3.4	20		
Methylene chloride	220	ug/L	10	111	70	130	6.6	20		
n-Butylbenzene	190	ug/L	10	96	70	130	9.9	20		
n-Propylbenzene	180	ug/L	10	89	70	130	9.0	20		
Naphthalene	180	ug/L	10	90	70	130	2.2	20		
o-Xylene	200	ug/L	10	98	70	130	7.5	20		
p-Isopropyltoluene	210	ug/L	10	105	70	130	10	20		
sec-Butylbenzene	180	ug/L	10	90	70	130	9.4	20		
Styrene	210	ug/L	10	106	70	130	7.3	20		
tert-Butylbenzene	190	ug/L	10	96	70	130	8.4	20		
Tetrachloroethene	190	ug/L	10	97	70	130	9.4	20		
Toluene	190	ug/L	10	96	70	130	8.4	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-8515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172735
Sample ID: C13040653-003AMSD 67 Sample Matrix Spike Duplicate					Run: 5975VOC1_130422A					04/22/13 20:10
trans-1,2-Dichloroethene		230	ug/L	10	113	70	130	4.8	20	
trans-1,3-Dichloropropene		210	ug/L	10	107	70	130	6.1	20	
Trichloroethene		180	ug/L	10	92	70	130	7.1	20	
Trichlorofluoromethane		200	ug/L	10	102	70	130	11	20	
Vinyl chloride		210	ug/L	10	107	70	130	0.4	20	
Xylenes, Total		590	ug/L	10	98	70	130	7.9	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	109	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	104	80	120	0.0	10	
Surr: Toluene-d8				1.0	116	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: 23-Apr-13_LCS_4										04/23/13 09:42
67 Laboratory Control Sample										Run: 5975VOC1_130423B
1,1,1,2-Tetrachloroethane	10	ug/L	1.0	104	70	130				
1,1,1-Trichloroethane	11	ug/L	1.0	111	70	130				
1,1,2,2-Tetrachloroethane	10	ug/L	1.0	103	70	130				
1,1,2-Trichloroethane	10	ug/L	1.0	104	70	130				
1,1-Dichloroethane	12	ug/L	1.0	118	70	130				
1,1-Dichloroethene	11	ug/L	1.0	105	70	130				
1,1-Dichloropropene	11	ug/L	1.0	112	70	130				
1,2,3-Trichlorobenzene	11	ug/L	1.0	108	70	130				
1,2,3-Trichloropropane	9.8	ug/L	1.0	98	70	130				
1,2,4-Trichlorobenzene	10	ug/L	1.0	102	70	130				
1,2,4-Trimethylbenzene	11	ug/L	1.0	106	70	130				
1,2-Dibromo-3-chloropropane	10	ug/L	1.0	100	70	130				
1,2-Dibromoethane	10	ug/L	1.0	102	70	130				
1,2-Dichlorobenzene	10	ug/L	1.0	102	70	130				
1,2-Dichloroethane	10	ug/L	1.0	103	70	130				
1,2-Dichloropropane	11	ug/L	1.0	111	70	130				
1,3,5-Trimethylbenzene	11	ug/L	1.0	106	70	130				
1,3-Dichlorobenzene	10	ug/L	1.0	101	70	130				
1,3-Dichloropropane	10	ug/L	1.0	105	70	130				
1,4-Dichlorobenzene	10	ug/L	1.0	104	70	130				
2,2-Dichloropropane	12	ug/L	1.0	123	60	140				
2-Chloroethyl vinyl ether	10	ug/L	1.0	102	70	130				
2-Chlorotoluene	9.8	ug/L	1.0	98	70	130				
4-Chlorotoluene	10	ug/L	1.0	102	70	130				
Benzene	11	ug/L	1.0	110	70	130				
Bromobenzene	10	ug/L	1.0	104	70	130				
Bromochloromethane	11	ug/L	1.0	114	70	130				
Bromodichloromethane	10	ug/L	1.0	103	70	130				
Bromoform	9.7	ug/L	1.0	97	70	130				
Bromomethane	9.0	ug/L	1.0	90	70	130				
Carbon tetrachloride	11	ug/L	1.0	110	70	130				
Chlorobenzene	10.0	ug/L	1.0	100	70	130				
Chlorodibromomethane	10	ug/L	1.0	100	70	130				
Chloroethane	12	ug/L	1.0	122	70	130				
Chloroform	11	ug/L	1.0	112	70	130				
Chloromethane	10	ug/L	1.0	101	70	130				
cis-1,2-Dichloroethene	11	ug/L	1.0	111	70	130				
cis-1,3-Dichloropropene	11	ug/L	1.0	109	70	130				
Dibromomethane	11	ug/L	1.0	108	70	130				
Dichlorodifluoromethane	8.8	ug/L	1.0	88	70	130				
Ethylbenzene	10	ug/L	1.0	102	70	130				
Hexachlorobutadiene	11	ug/L	1.0	106	70	130				
Isopropylbenzene	9.9	ug/L	1.0	99	70	130				
m+p-Xylenes	20	ug/L	1.0	100	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: 23-Apr-13_LCS_4										04/23/13 09:42
67 Laboratory Control Sample										Run: 5975VOC1_130423B
Methyl ethyl ketone		100	ug/L	10	103	70	130			
Methyl tert-butyl ether (MTBE)		9.9	ug/L	1.0	99	70	130			
Methylene chloride		11	ug/L	1.0	108	70	130			
n-Butylbenzene		11	ug/L	1.0	107	70	130			
n-Propylbenzene		9.8	ug/L	1.0	98	70	130			
Naphthalene		10	ug/L	1.0	105	70	130			
o-Xylene		10	ug/L	1.0	100	70	130			
p-Isopropyltoluene		12	ug/L	1.0	116	70	130			
sec-Butylbenzene		9.8	ug/L	1.0	98	70	130			
Styrene		11	ug/L	1.0	108	70	130			
tert-Butylbenzene		10	ug/L	1.0	104	70	130			
Tetrachloroethene		10	ug/L	1.0	103	70	130			
Toluene		10	ug/L	1.0	100	70	130			
trans-1,2-Dichloroethene		12	ug/L	1.0	115	70	130			
trans-1,3-Dichloropropene		11	ug/L	1.0	113	70	130			
Trichloroethene		10	ug/L	1.0	105	70	130			
Trichlorofluoromethane		9.8	ug/L	1.0	98	70	130			
Vinyl chloride		10	ug/L	1.0	104	70	130			
Xylenes, Total		30	ug/L	1.0	100	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	104	80	130			
Surr: Toluene-d8				1.0	116	80	120			
Sample ID: 23-Apr-13_MBLK_6										04/23/13 10:53
67 Method Blank										Run: 5975VOC1_130423B
1,1,1,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,1-Trichloroethane		ND	ug/L	1.0						
1,1,2,2-Tetrachloroethane		ND	ug/L	1.0						
1,1,2-Trichloroethane		ND	ug/L	1.0						
1,1-Dichloroethane		ND	ug/L	1.0						
1,1-Dichloroethene		ND	ug/L	1.0						
1,1-Dichloropropene		ND	ug/L	1.0						
1,2,3-Trichlorobenzene		ND	ug/L	1.0						
1,2,3-Trichloropropane		ND	ug/L	1.0						
1,2,4-Trichlorobenzene		ND	ug/L	1.0						
1,2,4-Trimethylbenzene		ND	ug/L	1.0						
1,2-Dibromo-3-chloropropane		ND	ug/L	1.0						
1,2-Dibromoethane		ND	ug/L	1.0						
1,2-Dichlorobenzene		ND	ug/L	1.0						
1,2-Dichloroethane		ND	ug/L	1.0						
1,2-Dichloropropane		ND	ug/L	1.0						
1,3,5-Trimethylbenzene		ND	ug/L	1.0						
1,3-Dichlorobenzene		ND	ug/L	1.0						
1,3-Dichloropropane		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: 23-Apr-13_MBLK_6	67	Method Blank				Run: 5975VOC1_130423B				04/23/13 10:53
1,4-Dichlorobenzene		ND	ug/L	1.0						
2,2-Dichloropropane		ND	ug/L	1.0						
2-Chloroethyl vinyl ether		ND	ug/L	1.0						
2-Chlorotoluene		ND	ug/L	1.0						
4-Chlorotoluene		ND	ug/L	1.0						
Benzene		ND	ug/L	1.0						
Bromobenzene		ND	ug/L	1.0						
Bromochloromethane		ND	ug/L	1.0						
Bromodichloromethane		ND	ug/L	1.0						
Bromoform		ND	ug/L	1.0						
Bromomethane		ND	ug/L	1.0						
Carbon tetrachloride		ND	ug/L	1.0						
Chlorobenzene		ND	ug/L	1.0						
Chlorodibromomethane		ND	ug/L	1.0						
Chloroethane		ND	ug/L	1.0						
Chloroform		ND	ug/L	1.0						
Chloromethane		ND	ug/L	1.0						
cis-1,2-Dichloroethene		ND	ug/L	1.0						
cis-1,3-Dichloropropene		ND	ug/L	1.0						
Dibromomethane		ND	ug/L	1.0						
Dichlorodifluoromethane		ND	ug/L	1.0						
Ethylbenzene		ND	ug/L	1.0						
Hexachlorobutadiene		ND	ug/L	1.0						
Isopropylbenzene		ND	ug/L	1.0						
m+p-Xylenes		ND	ug/L	1.0						
Methyl ethyl ketone		ND	ug/L	10						
Methyl tert-butyl ether (MTBE)		ND	ug/L	1.0						
Methylene chloride		ND	ug/L	1.0						
n-Butylbenzene		ND	ug/L	1.0						
n-Propylbenzene		ND	ug/L	1.0						
Naphthalene		ND	ug/L	1.0						
o-Xylene		ND	ug/L	1.0						
p-Isopropyltoluene		ND	ug/L	1.0						
sec-Butylbenzene		ND	ug/L	1.0						
Styrene		ND	ug/L	1.0						
tert-Butylbenzene		ND	ug/L	1.0						
Tetrachloroethene		ND	ug/L	1.0						
Toluene		ND	ug/L	1.0						
trans-1,2-Dichloroethene		ND	ug/L	1.0						
trans-1,3-Dichloropropene		ND	ug/L	1.0						
Trichloroethene		ND	ug/L	1.0						
Trichlorofluoromethane		ND	ug/L	1.0						
Vinyl chloride		ND	ug/L	1.0						
Xylenes, Tctal		ND	ug/L	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: 23-Apr-13_MBLK_6										04/23/13 10:53
67 Method Blank										Run: 5975VOC1_130423B
Surr: 1,2-Dichlorobenzene-d4				1.0	113	80	120			
Surr: Dibromofluoromethane				1.0	102	70	130			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	107	80	120			
Sample ID: C13040653-003AMS										04/23/13 16:47
67 Sample Matrix Spike										Run: 5975VOC1_130423B
1,1,1,2-Tetrachloroethane	220	ug/L	10	111	70	130				
1,1,1-Trichloroethane	240	ug/L	10	118	70	130				
1,1,2,2-Tetrachloroethane	210	ug/L	10	104	70	130				
1,1,2-Trichloroethane	210	ug/L	10	105	70	130				
1,1-Dichloroethane	240	ug/L	10	121	70	130				
1,1-Dichloroethene	220	ug/L	10	110	70	130				
1,1-Dichloropropene	230	ug/L	10	117	70	130				
1,2,3-Trichlorobenzene	210	ug/L	10	107	70	130				
1,2,3-Trichloropropane	210	ug/L	10	105	70	130				
1,2,4-Trichlorobenzene	200	ug/L	10	102	70	130				
1,2,4-Trimethylbenzene	220	ug/L	10	110	70	130				
1,2-Dibromo-3-chloropropane	220	ug/L	10	112	70	130				
1,2-Dibromoethane	210	ug/L	10	106	70	130				
1,2-Dichlorobenzene	210	ug/L	10	106	70	130				
1,2-Dichloroethane	220	ug/L	10	110	70	130				
1,2-Dichloropropane	220	ug/L	10	112	70	130				
1,3,5-Trimethylbenzene	220	ug/L	10	111	70	130				
1,3-Dichlorobenzene	210	ug/L	10	104	70	130				
1,3-Dichloropropane	220	ug/L	10	109	70	130				
1,4-Dichlorobenzene	210	ug/L	10	107	70	130				
2,2-Dichloropropane	240	ug/L	10	120	70	130				
2-Chloroethyl vinyl ether	22	ug/L	10	11	70	130				S
2-Chlorotoluene	200	ug/L	10	102	70	130				
4-Chlorotoluene	210	ug/L	10	104	70	130				
Benzene	230	ug/L	10	114	70	130				
Bromobenzene	210	ug/L	10	106	70	130				
Bromochloromethane	240	ug/L	10	122	70	130				
Bromodichloromethane	220	ug/L	10	111	70	130				
Bromoform	200	ug/L	10	102	70	130				
Bromomethane	220	ug/L	10	110	70	130				
Carbon tetrachloride	240	ug/L	10	120	70	130				
Chlorobenzene	210	ug/L	10	104	70	130				
Chlorodibromomethane	210	ug/L	10	105	70	130				
Chloroethane	250	ug/L	10	125	70	130				
Chloroform	240	ug/L	10	121	70	130				
Chloromethane	150	ug/L	10	77	70	130				
cis-1,2-Dichloroethene	230	ug/L	10	117	70	130				
cis-1,3-Dichloropropene	220	ug/L	10	110	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: C13040653-003AMS 67 Sample Matrix Spike										Run: 5975VOC1_130423B 04/23/13 16:47
Dibromomethane		230	ug/L	10	114	70	130			
Dichlorodifluoromethane		170	ug/L	10	85	70	130			
Ethylbenzene		210	ug/L	10	106	70	130			
Hexachlorobutadiene		220	ug/L	10	112	70	130			
Isopropylbenzene		210	ug/L	10	104	70	130			
m+p-Xylenes		420	ug/L	10	105	70	130			
Methyl ethyl ketone		2000	ug/L	200	99	70	130			
Methyl tert-butyl ether (MTBE)		220	ug/L	10	108	70	130			
Methylene chloride		220	ug/L	10	109	70	130			
n-Butylbenzene		220	ug/L	10	111	70	130			
n-Propylbenzene		200	ug/L	10	102	70	130			
Naphthalene		210	ug/L	10	104	70	130			
o-Xylene		210	ug/L	10	104	70	130			
p-Isopropyltoluene		240	ug/L	10	121	70	130			
sec-Butylbenzene		200	ug/L	10	102	70	130			
Styrene		220	ug/L	10	111	70	130			
tert-Butylbenzene		220	ug/L	10	108	70	130			
Tetrachloroethene		210	ug/L	10	106	70	130			
Toluene		210	ug/L	10	104	70	130			
trans-1,2-Dichloroethene		230	ug/L	10	114	70	130			
trans-1,3-Dichloropropene		240	ug/L	10	118	70	130			
Trichloroethene		210	ug/L	10	107	70	130			
Trichlorofluoromethane		210	ug/L	10	104	70	130			
Vinyl chloride		190	ug/L	10	94	70	130			
Xylenes, Total		630	ug/L	10	105	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	106	70	130			
Surr: p-Bromofluorobenzene				1.0	106	80	120			
Surr: Toluene-d8				1.0	118	80	120			
Sample ID: C13040653-003AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130423B 04/23/13 17:22
1,1,1,2-Tetrachloroethane		220	ug/L	10	110	70	130	0.7	20	
1,1,1-Trichloroethane		230	ug/L	10	115	70	130	3.1	20	
1,1,2,2-Tetrachloroethane		210	ug/L	10	105	70	130	1.2	20	
1,1,2-Trichloroethane		220	ug/L	10	108	70	130	2.3	20	
1,1-Dichloroethane		250	ug/L	10	124	70	130	2.6	20	
1,1-Dichloroethene		220	ug/L	10	112	70	130	2.2	20	
1,1-Dichloropropene		230	ug/L	10	116	70	130	0.7	20	
1,2,3-Trichlorobenzene		210	ug/L	10	107	70	130	0.0	20	
1,2,3-Trichloropropane		210	ug/L	10	104	70	130	0.8	20	
1,2,4-Trichlorobenzene		200	ug/L	10	102	70	130	0.0	20	
1,2,4-Trimethylbenzene		220	ug/L	10	109	70	130	1.1	20	
1,2-Dibromo-3-chloropropane		200	ug/L	10	100	70	130	11	20	
1,2-Dibromoethane		220	ug/L	10	108	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: C13040653-003AMSD										04/23/13 17:22
67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130423B
1,2-Dichlorobenzene	210	ug/L	10	105	70	130	0.8	20		
1,2-Dichloroethane	210	ug/L	10	107	70	130	2.9	20		
1,2-Dichloropropane	220	ug/L	10	112	70	130	0.4	20		
1,3,5-Trimethylbenzene	220	ug/L	10	108	70	130	2.2	20		
1,3-Dichlorobenzene	210	ug/L	10	105	70	130	0.8	20		
1,3-Dichloropropane	220	ug/L	10	109	70	130	0.0	20		
1,4-Dichlorobenzene	210	ug/L	10	107	70	130	0.0	20		
2,2-Dichloropropane	240	ug/L	10	118	70	130	1.3	20		
2-Chloroethyl vinyl ether	18	ug/L	10	9	70	130	17	20		S
2-Chlorotoluene	200	ug/L	10	101	70	130	0.4	20		
4-Chlorotoluene	210	ug/L	10	104	70	130	0.0	20		
Benzene	230	ug/L	10	113	70	130	1.1	20		
Bromobenzene	210	ug/L	10	107	70	130	1.1	20		
Bromochloromethane	240	ug/L	10	120	70	130	1.6	20		
Bromodichloromethane	220	ug/L	10	108	70	130	3.3	20		
Bromoform	210	ug/L	10	104	70	130	1.6	20		
Bromomethane	240	ug/L	10	122	70	130	11	20		
Carbon tetrachloride	230	ug/L	10	116	70	130	3.0	20		
Chlorobenzene	210	ug/L	10	104	70	130	0.4	20		
Chlorodibromomethane	210	ug/L	10	105	70	130	0.4	20		
Chloroethane	250	ug/L	10	127	70	130	1.9	20		
Chloroform	240	ug/L	10	118	70	130	2.7	20		
Chloromethane	240	ug/L	10	120	70	130	44	20		R
cis-1,2-Dichloroethene	240	ug/L	10	118	70	130	0.7	20		
cis-1,3-Dichloropropene	220	ug/L	10	110	70	130	0.4	20		
Dibromomethane	230	ug/L	10	113	70	130	0.7	20		
Dichlorodifluoromethane	180	ug/L	10	90	70	130	5.5	20		
Ethylbenzene	210	ug/L	10	104	70	130	1.5	20		
Hexachlorobutadiene	210	ug/L	10	107	70	130	4.7	20		
Isopropylbenzene	200	ug/L	10	102	70	130	1.9	20		
m+p-Xylenes	410	ug/L	10	103	70	130	1.5	20		
Methyl ethyl ketone	2100	ug/L	200	105	70	130	5.9	20		
Methyl tert-butyl ether (MTBE)	200	ug/L	10	100	70	130	8.1	20		
Methylene chloride	230	ug/L	10	113	70	130	3.6	20		
n-Butylbenzene	220	ug/L	10	109	70	130	2.2	20		
n-Propylbenzene	200	ug/L	10	100	70	130	2.4	20		
Naphthalene	200	ug/L	10	102	70	130	1.2	20		
o-Xylene	210	ug/L	10	103	70	130	1.2	20		
p-Isopropyltoluene	240	ug/L	10	118	70	130	2.0	20		
sec-Butylbenzene	200	ug/L	10	100	70	130	1.6	20		
Styrene	220	ug/L	10	112	70	130	0.7	20		
tert-Butylbenzene	210	ug/L	10	107	70	130	0.4	20		
Tetrachloroethene	210	ug/L	10	105	70	130	1.1	20		
Toluene	210	ug/L	10	103	70	130	1.2	20		

Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172789
Sample ID: C13040653-003AMSD 67 Sample Matrix Spike Duplicate										Run: 5975VOC1_130423B 04/23/13 17:22
trans-1,2-Dichloroethene	240		ug/L	10	120	70	130	5.5	20	
trans-1,3-Dichloropropene	240		ug/L	10	118	70	130	0.0	20	
Trichloroethene	210		ug/L	10	107	70	130	0.0	20	
Trichlorofluoromethane	210		ug/L	10	104	70	130	0.0	20	
Vinyl chloride	220		ug/L	10	111	70	130	16	20	
Xylenes, Total	620		ug/L	10	103	70	130	1.4	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	106	70	130	0.0	10	
Surr: p-Bromofluorobenzene				1.0	105	80	120	0.0	10	
Surr: Toluene-d8				1.0	115	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/29/13

Project: 90125 Artesia

Work Order: C13040638

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172965
Sample ID: 24-Apr-13_LCS_4	7	Laboratory Control Sample				Run: 5975VOC1_130424B				04/24/13 13:39
1,1-Dichloroethane	14	ug/L	1.0	140	70	130				S
1,2,4-Trimethylbenzene	11	ug/L	1.0	112	70	130				
m+p-Xylenes	21	ug/L	1.0	106	70	130				
Surr: 1,2-Dichlorobenzene-d4			1.0	102	80	120				
Surr: Dibromofluoromethane			1.0	109	70	130				
Surr: p-Bromofluorobenzene			1.0	105	80	130				
Surr: Toluene-d8			1.0	116	80	120				
Sample ID: 24-Apr-13_MBLK_6	7	Method Blank				Run: 5975VOC1_130424B				04/24/13 14:50
1,1-Dichloroethane	ND	ug/L	1.0							
1,2,4-Trimethylbenzene	ND	ug/L	1.0							
m+p-Xylenes	ND	ug/L	1.0							
Surr: 1,2-Dichlorobenzene-d4			1.0	114	80	120				
Surr: Dibromofluoromethane			1.0	106	70	130				
Surr: p-Bromofluorobenzene			1.0	113	80	120				
Surr: Toluene-d8			1.0	106	80	120				
Sample ID: C13040737-001AMS	7	Sample Matrix Spike				Run: 5975VOC1_130424B				04/24/13 20:44
1,1-Dichloroethane	140	ug/L	5.0	140	70	130				S
1,2,4-Trimethylbenzene	110	ug/L	5.0	108	70	130				
m+p-Xylenes	210	ug/L	5.0	104	70	130				
Surr: 1,2-Dichlorobenzene-d4			1.0	103	80	120				
Surr: Dibromofluoromethane			1.0	114	70	130				
Surr: p-Bromofluorobenzene			1.0	104	80	120				
Surr: Toluene-d8			1.0	117	80	120				
Sample ID: C13040737-001AMSD	7	Sample Matrix Spike Duplicate				Run: 5975VOC1_130424B				04/24/13 21:20
1,1-Dichloroethane	140	ug/L	5.0	138	70	130	0.9	20		S
1,2,4-Trimethylbenzene	110	ug/L	5.0	109	70	130	0.7	20		
m+p-Xylenes	210	ug/L	5.0	103	70	130	0.6	20		
Surr: 1,2-Dichlorobenzene-d4			1.0	104	80	120	0.0	10		
Surr: Dibromofluoromethane			1.0	113	70	130	0.0	10		
Surr: p-Bromofluorobenzene			1.0	106	80	120	0.0	10		
Surr: Toluene-d8			1.0	116	80	120	0.0	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Deuell Environmental LLC

C13040638

Login completed by: Dorian Quis

Date Received: 4/19/2013

Reviewed by: BL2000\kmiller

Received by: dcq

Reviewed Date: 4/22/2013

Carrier Hand Del
name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received?	Yes ☒	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	2.7°C On Ice		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

Page 1 of 3

PLEASE PRINT (Provide as much information as possible.)

Company Name: DEVELL ENVIRONMENTAL		Project Name, PWS, Permit, Etc. 90125 ARTESIA		Sample Origin State: NM		EPA/State Compliance: Yes ☒ No ☐	
Report Mail Address (Required): 1653 DIAMOND HEAD CT LARAMIE, WY 82002		Contact Name: Rick Devel		Phone/Fax: 307 760 3277		Cell: 90125, 2	
Invoice Address (Required):		Invoice Contact & Phone:		Purchase Order: 90125, 2		Quote/Bottle Order:	
Special Report/Formats: ☐ DW ☐ POTW/WWTP ☐ State: ☐ Other:		Number of Containers Sample Type: A W S V B O D W Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water EPAS 0260		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: C13040638	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Shipped by: Hand Cooler ID(s): 4138 Receipt Temp: 27 °C On Ice: ☒ Y ☐ N Custody Seal On Bottle: ☒ Y ☐ N On Cooler: ☒ Y ☐ N Intact: ☒ Y ☐ N Signature Match: ☒ Y ☐ N		
1 90125-20.4/13	4/11/13	07:00	3w	X	LABORATORY USE ONLY		
2 90125-28.4/13		07:30					
3 90125-27.4/13		08:00					
4 90125-30.4/13		08:30					
5 90125-TANK B.4/13		08:45					
6 90125-32.4/13		09:00					
7 90125-33.4/13		09:30					
8 90125-26.4/13		10:00					
9 90125-27.4/13		10:30					
10 90125-22.4/13		11:00					
Custody Record MUST be Signed	Relinquished by (print): Rick Devel	Date/Time: 4/19/13 08:50	Signature: [Signature]		Received by (print):		
	Relinquished by (print):	Date/Time:	Signature:		Date/Time:		
	Sample Disposal: Return to Client:		Lab Disposal:		Received by Laboratory: 4/19/13 0852		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

PLEASE PRINT (Provide as much information as possible.)

Company Name: DEVELL ENVIRONMENTAL			Project Name, PWS, Permit, Etc. 90125 ARTESIA			Sample Origin State: NM		EPA/State Compliance: Yes ☒ No ☐			
Report Mail Address (Required): 1653 DIAMOND HEAD CT LARAMIE, WY 82072			Contact Name: Rick Devel		Phone/Fax: 307 760 3277		Cell:		Sampler: (Please Print)		
☐ No Hard Copy Email:			Invoice Contact & Phone:				Purchase Order: 90125.2		Quote/Bottle Order:		
Invoice Address (Required): SAME			ANALYSIS REQUESTED Number of Containers: _____ Sample Type: ☐ DW ☐ SV ☐ B ☐ O ☐ W ☐ Air Water ☐ Soils/Solids ☐ Other ☐ Vegetation ☐ Bioassay ☐ Other ☐ DW - Drinking Water			SEE ATTACHED Standard Turnaround (TAT): _____ R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:		Shipped by: blond Cooler ID(s): 4138	
☐ No Hard Copy Email: Special Report/Formats: ☐ DW ☐ EDD/EDT (Electronic Data) ☐ POTW/WWTP ☐ Format: _____ ☐ State: _____ ☐ LEVEL IV ☐ Other: _____ ☐ NELAC										Receipt Temp: 27 °C On Ice: ☒ N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)			Collection Date		Collection Time		MATRIX		LABORATORY USE ONLY		
1 90125-25.4/13			4/16/13		11:30		3W X				
2 90125-21.4/13					12:00						
3 90125-31.4/13					12:30						
4 90125-18.4/13					13:00						
5 90125-11.4/13					13:30						
6 90125-8.4/13			V		14:00						
7 90125-TANK A.4/14			4/17/13		07:00						
8 90125-13.4/13					08:30						
9 90125-15.4/13					09:00						
10 90125-9.4/13			V		09:30						
Custody Record MUST be Signed			Relinquished by (print):		Date/Time:		Signature:		Received by (print):		
			Rick Devel		4/17/13 09:50		[Signature]		Date/Time:		
			Relinquished by (print):		Date/Time:		Signature:		Received by (print):		Date/Time:
Sample Disposal:			Return to Client:			Lab Disposal:			Received by Laboratory:		
									4/19/13 852 [Signature]		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.



Chain of Custody and Analytical Request Record

Page 3 of 3

PLEASE PRINT (Provide as much information as possible.)

Company Name: DEUEL ENVIRONMENTAL		Project Name, PWS, Permit, Etc. 90125 ARTESIA		Sample Origin State: NM		EPA/State Compliance: Yes ☒ No ☐	
Report Mail Address (Required): 1653 DIAMOND HEAD CT LAROMIE, WY 82072		Contact Name: RICK DEUEL		Phone/Fax: 3077683277		Cell: 901252	
Invoice Address (Required): SAME		Invoice Contact & Phone:		Purchase Order: 901252		Quote/Bottle Order:	
☐ No Hard Copy Email:		Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water ETA 0260		ANALYSIS REQUESTED		SEE ATTACHED	
Special Report/Formats: ☐ DW ☐ POTW/WWTP ☐ State: ☐ Other:		☐ EDD/EDT (Electronic Data) Format: ☐ LEVEL IV ☐ NELAC		RUSH		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Standard Turnaround (TAT)		Shipped by: Hand
1 90125-12.4/13	4/17/13	10:00	3W	☒			Cooler ID(s): 4138
2 90125-A.4/13	4/16/13	06:30	↓	☒			Receipt Temp 27 °C
3 90125-B.4/13	↓	06:00	↓	☒			On Ice: ☒
4 90125-6.4/13	4/17/13	06:30	↓	☒			Custody Seal On Bottle Y ☒ N On Cooler Y ☒ N
5 TRIP BLANK 7305			2W	☒			Intact Y ☒ N
6 TEMP BLANK			1W	☒			Signature Match Y ☒ N
7							LABORATORY USE ONLY
8							
9							
10							
Custody Record MUST be Signed	Relinquished by (print): Rick Deuel	Date/Time: 4/19/13 10:00	Signature: [Signature]	Received by (print):	Date/Time:	Signature:	
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:	
	Sample Disposal:	Return to Client:	Lab Disposal:	Received by Laboratory:	Date/Time: 4/19/13 8:52	Signature: [Signature]	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.



www.energylab.com
Analytical Excellence Since 1952

Helena, MT 877-472-0711 • Billings, MT 800-735-4489 • Casper, WY 888-235-0515
Gillette, WY 888-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-688-2218

ANALYTICAL SUMMARY REPORT

April 24, 2013

Deuell Environmental LLC
1653 Diamond Head Ct
Laramie, WY 82072

Workorder No.: C13040578

Project Name: 90125 Artesia

Energy Laboratories, Inc. Casper WY received the following 2 samples for Deuell Environmental LLC on 4/17/2013 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C13040578-001	90125-INP.4/13	04/16/13 16:00	04/17/13	Air	SW8260B VOCs, Standard List
C13040578-002	Tedlar Bag	04/16/13 0:00	04/17/13		Supplies

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:


Report Preparing Specialist

Digitally signed by
Sheri M. Mead
Date: 2013.04.24 16:03:22 -06:00



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040578-001
Client Sample ID 90125-INP.4/13

Report Date: 04/24/13
Collection Date: 04/16/13 16:00
Date Received: 04/17/13
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,1,1,2-Tetrachloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1,1-Trichloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1,2,2-Tetrachloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1,2-Trichloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1-Dichloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1-Dichloroethene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,1-Dichloropropene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2,3-Trichlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2,3-Trichloropropane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2,4-Trichlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2,4-Trimethylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2-Dibromo-3-chloropropane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2-Dibromoethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2-Dichlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2-Dichloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,2-Dichloropropane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,3,5-Trimethylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,3-Dichlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,3-Dichloropropane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
1,4-Dichlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
2,2-Dichloropropane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
2-Chlorotoluene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
4-Chlorotoluene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Benzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Bromobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Bromochloromethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Bromodichloromethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Bromoform	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Bromomethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Carbon tetrachloride	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Chlorobenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Chlorodibromomethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Chloroethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Chloroform	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Chloromethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
cis-1,2-Dichloroethene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
cis-1,3-Dichloropropene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Dibromomethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Dichlorodifluoromethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Ethylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Hexachlorobutadiene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Isopropylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
m+p-Xylenes	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC
Project: 90125 Artesia
Lab ID: C13040578-001
Client Sample ID 90125-INP.4/13

Report Date: 04/24/13
Collection Date: 04/16/13 16:00
Date Received: 04/17/13
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Methyl ethyl ketone	ND	mg/m3		20		SW8260B	04/23/13 11:29 / jk
Methylene chloride	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Naphthalene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
n-Butylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
n-Propylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
o-Xylene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
p-Isopropyltoluene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
sec-Butylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Styrene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
tert-Butylbenzene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Tetrachloroethene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Toluene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
trans-1,2-Dichloroethene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
trans-1,3-Dichloropropene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Trichloroethene	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Trichlorofluoromethane	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Vinyl chloride	ND	mg/m3		1.0		SW8260B	04/23/13 11:29 / jk
Surr: 1,2-Dichlorobenzene-d4	112	%REC		80-120		SW8260B	04/23/13 11:29 / jk
Surr: Dibromofluoromethane	107	%REC		80-120		SW8260B	04/23/13 11:29 / jk
Surr: p-Bromofluorobenzene	114	%REC		80-120		SW8260B	04/23/13 11:29 / jk
Surr: Toluene-d8	108	%REC		80-120		SW8260B	04/23/13 11:29 / jk

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: 23-Apr-13_LCS_4										04/23/13 09:42
64 Laboratory Control Sample										Run: 5975VOC1_130423A
1,1,1,2-Tetrachloroethane		10.4	mg/m3	1.0	104	70	130			
1,1,1-Trichloroethane		11.1	mg/m3	1.0	111	70	130			
1,1,2,2-Tetrachloroethane		10.3	mg/m3	1.0	103	70	130			
1,1,2-Trichloroethane		10.4	mg/m3	1.0	104	70	130			
1,1-Dichloroethane		11.8	mg/m3	1.0	118	70	130			
1,1-Dichloroethene		10.5	mg/m3	1.0	105	70	130			
1,1-Dichloropropene		11.2	mg/m3	1.0	112	70	130			
1,2,3-Trichlorobenzene		10.8	mg/m3	1.0	108	70	130			
1,2,3-Trichloropropane		9.80	mg/m3	1.0	98	70	130			
1,2,4-Trichlorobenzene		10.2	mg/m3	1.0	102	70	130			
1,2,4-Trimethylbenzene		10.6	mg/m3	1.0	106	70	130			
1,2-Dibromo-3-chloropropane		10.0	mg/m3	1.0	100	70	130			
1,2-Dibromoethane		10.2	mg/m3	1.0	102	70	130			
1,2-Dichlorobenzene		10.2	mg/m3	1.0	102	70	130			
1,2-Dichloroethane		10.3	mg/m3	1.0	103	70	130			
1,2-Dichloropropane		11.1	mg/m3	1.0	111	70	130			
1,3,5-Trimethylbenzene		10.6	mg/m3	1.0	106	70	130			
1,3-Dichlorobenzene		10.1	mg/m3	1.0	101	70	130			
1,3-Dichloropropane		10.5	mg/m3	1.0	105	70	130			
1,4-Dichlorobenzene		10.4	mg/m3	1.0	104	70	130			
2,2-Dichloropropane		12.3	mg/m3	1.0	123	70	130			
2-Chlorotoluene		9.80	mg/m3	1.0	98	70	130			
4-Chlorotoluene		10.2	mg/m3	1.0	102	70	130			
Benzene		11.0	mg/m3	1.0	110	70	130			
Bromobenzene		10.4	mg/m3	1.0	104	70	130			
Bromochloromethane		11.4	mg/m3	1.0	114	70	130			
Bromodichloromethane		10.3	mg/m3	1.0	103	70	130			
Bromoform		9.72	mg/m3	1.0	97	70	130			
Bromomethane		9.04	mg/m3	1.0	90	70	130			
Carbon tetrachloride		11.0	mg/m3	1.0	110	70	130			
Chlorobenzene		9.96	mg/m3	1.0	100	70	130			
Chlorodibromomethane		10.0	mg/m3	1.0	100	70	130			
Chloroethane		12.2	mg/m3	1.0	122	70	130			
Chloroform		11.2	mg/m3	1.0	112	70	130			
Chloromethane		10.1	mg/m3	1.0	101	70	130			
cis-1,2-Dichloroethene		11.1	mg/m3	1.0	111	70	130			
cis-1,3-Dichloropropene		10.9	mg/m3	1.0	109	70	130			
Dibromomethane		10.8	mg/m3	1.0	108	70	130			
Dichlorodifluoromethane		8.76	mg/m3	1.0	88	70	130			
Ethylbenzene		10.2	mg/m3	1.0	102	70	130			
Hexachlorobutadiene		10.6	mg/m3	1.0	106	70	130			
Isopropylbenzene		9.92	mg/m3	1.0	99	70	130			
m+p-Xylenes		20.1	mg/m3	1.0	100	70	130			
Methyl ethyl ketone		103	mg/m3	20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: 23-Apr-13_LCS_4	64	Laboratory Control Sample		Run: 5975VOC1_130423A				04/23/13 09:42		
Methylene chloride		10.8	mg/m3	1.0	108	70	130			
Naphthalene		10.5	mg/m3	1.0	105	70	130			
n-Butylbenzene		10.7	mg/m3	1.0	107	70	130			
n-Propylbenzene		9.80	mg/m3	1.0	98	70	130			
o-Xylene		10.0	mg/m3	1.0	100	70	130			
p-Isopropyltoluene		11.6	mg/m3	1.0	116	70	130			
sec-Butylbenzene		9.76	mg/m3	1.0	98	70	130			
Styrene		10.8	mg/m3	1.0	108	70	130			
tert-Butylbenzene		10.4	mg/m3	1.0	104	70	130			
Tetrachloroethene		10.3	mg/m3	1.0	103	70	130			
Toluene		10.0	mg/m3	1.0	100	70	130			
trans-1,2-Dichloroethene		11.5	mg/m3	1.0	115	70	130			
trans-1,3-Dichloropropene		11.3	mg/m3	1.0	113	70	130			
Trichloroethene		10.5	mg/m3	1.0	105	70	130			
Trichlorofluoromethane		9.84	mg/m3	1.0	98	70	130			
Vinyl chloride		10.4	mg/m3	1.0	104	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	102	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	104	80	120			
Surr: Toluene-d8				1.0	116	80	120			
Sample ID: 23-Apr-13_MBLK_6	64	Method Blank		Run: 5975VOC1_130423A				04/23/13 10:53		
1,1,1,2-Tetrachloroethane		ND	mg/m3	1.0						
1,1,1-Trichloroethane		ND	mg/m3	1.0						
1,1,2,2-Tetrachloroethane		ND	mg/m3	1.0						
1,1,2-Trichloroethane		ND	mg/m3	1.0						
1,1-Dichloroethane		ND	mg/m3	1.0						
1,1-Dichloroethene		ND	mg/m3	1.0						
1,1-Dichloropropene		ND	mg/m3	1.0						
1,2,3-Trichlorobenzene		ND	mg/m3	1.0						
1,2,3-Trichloropropane		ND	mg/m3	1.0						
1,2,4-Trichlorobenzene		ND	mg/m3	1.0						
1,2,4-Trimethylbenzene		ND	mg/m3	1.0						
1,2-Dibromo-3-chloropropane		ND	mg/m3	1.0						
1,2-Dibromocethane		ND	mg/m3	1.0						
1,2-Dichlorobenzene		ND	mg/m3	1.0						
1,2-Dichloroethane		ND	mg/m3	1.0						
1,2-Dichloropropane		ND	mg/m3	1.0						
1,3,5-Trimethylbenzene		ND	mg/m3	1.0						
1,3-Dichlorobenzene		ND	mg/m3	1.0						
1,3-Dichloropropane		ND	mg/m3	1.0						
1,4-Dichlorobenzene		ND	mg/m3	1.0						
2,2-Dichloropropane		ND	mg/m3	1.0						
2-Chlorotoluene		ND	mg/m3	1.0						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: 23-Apr-13_MBLK_6	64	Method Blank		Run: 5975VOC1_130423A				04/23/13 10:53		
4-Chlorotoluene		ND	mg/m3	1.0						
Benzene		ND	mg/m3	1.0						
Bromobenzene		ND	mg/m3	1.0						
Bromochloromethane		ND	mg/m3	1.0						
Bromodichloromethane		ND	mg/m3	1.0						
Bromoform		ND	mg/m3	1.0						
Bromomethane		ND	mg/m3	1.0						
Carbon tetrachloride		ND	mg/m3	1.0						
Chlorobenzene		ND	mg/m3	1.0						
Chlorodibromomethane		ND	mg/m3	1.0						
Chloroethane		ND	mg/m3	1.0						
Chloroform		ND	mg/m3	1.0						
Chloromethane		ND	mg/m3	1.0						
cis-1,2-Dichloroethene		ND	mg/m3	1.0						
cis-1,3-Dichloropropene		ND	mg/m3	1.0						
Dibromomethane		ND	mg/m3	1.0						
Dichlorodifluoromethane		ND	mg/m3	1.0						
Ethylbenzene		ND	mg/m3	1.0						
Hexachlorobutadiene		ND	mg/m3	1.0						
Isopropylbenzene		ND	mg/m3	1.0						
m+p-Xylenes		ND	mg/m3	1.0						
Methyl ethyl ketone		ND	mg/m3	20						
Methylene chloride		ND	mg/m3	1.0						
Naphthalene		ND	mg/m3	1.0						
n-Butylbenzene		ND	mg/m3	1.0						
n-Propylbenzene		ND	mg/m3	1.0						
o-Xylene		ND	mg/m3	1.0						
p-Isopropyltoluene		ND	mg/m3	1.0						
sec-Butylbenzene		ND	mg/m3	1.0						
Styrene		ND	mg/m3	1.0						
tert-Butylbenzene		ND	mg/m3	1.0						
Tetrachloroethene		ND	mg/m3	1.0						
Toluene		ND	mg/m3	1.0						
trans-1,2-Dichloroethene		ND	mg/m3	1.0						
trans-1,3-Dichloropropene		ND	mg/m3	1.0						
Trichloroethene		ND	mg/m3	1.0						
Trichlorofluoromethane		ND	mg/m3	1.0						
Vinyl chloride		ND	mg/m3	1.0						
Surr: 1,2-Dichlorobenzene-d4				1.0	113	80	120			
Surr: Dibromofluoromethane				1.0	102	80	120			
Surr: p-Bromofluorobenzene				1.0	112	80	120			
Surr: Toluene-d8				1.0	107	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: C13040578-001AMS 64 Sample Matrix Spike										Run: 5975VOC1_130423A 04/23/13 12:05
1,1,1,2-Tetrachloroethane		11.2	mg/m3	1.0	112	70	130			
1,1,1-Trichloroethane		12.8	mg/m3	1.0	128	70	130			
1,1,2,2-Tetrachloroethane		10.3	mg/m3	1.0	103	70	130			
1,1,2-Trichloroethane		11.0	mg/m3	1.0	110	70	130			
1,1-Dichloroethane		13.5	mg/m3	1.0	135	70	130			S
1,1-Dichloroethene		12.2	mg/m3	1.0	122	70	130			
1,1-Dichloropropene		12.6	mg/m3	1.0	126	70	130			
1,2,3-Trichlorobenzene		11.6	mg/m3	1.0	116	70	130			
1,2,3-Trichloropropane		10.5	mg/m3	1.0	105	70	130			
1,2,4-Trichlorobenzene		11.2	mg/m3	1.0	112	70	130			
1,2,4-Trimethylbenzene		11.0	mg/m3	1.0	110	70	130			
1,2-Dibromo-3-chloropropane		10.8	mg/m3	1.0	108	70	130			
1,2-Dibromoethane		10.6	mg/m3	1.0	106	70	130			
1,2-Dichlorobenzene		10.8	mg/m3	1.0	108	70	130			
1,2-Dichloroethane		11.3	mg/m3	1.0	113	70	130			
1,2-Dichloropropane		11.0	mg/m3	1.0	110	70	130			
1,3,5-Trimethylbenzene		11.1	mg/m3	1.0	111	70	130			
1,3-Dichlorobenzene		10.8	mg/m3	1.0	108	70	130			
1,3-Dichloropropane		11.0	mg/m3	1.0	110	70	130			
1,4-Dichlorobenzene		11.1	mg/m3	1.0	111	70	130			
2,2-Dichloropropane		14.2	mg/m3	1.0	142	70	130			S
2-Chlorotoluene		10.2	mg/m3	1.0	102	70	130			
4-Chlorotoluene		10.5	mg/m3	1.0	105	70	130			
Benzene		11.8	mg/m3	1.0	118	70	130			
Bromobenzene		10.7	mg/m3	1.0	107	70	130			
Bromochloromethane		12.2	mg/m3	1.0	122	70	130			
Bromodichloromethane		11.4	mg/m3	1.0	114	70	130			
Bromoform		10.3	mg/m3	1.0	103	70	130			
Bromomethane		8.92	mg/m3	1.0	89	70	130			
Carbon tetrachloride		13.2	mg/m3	1.0	132	70	130			S
Chlorobenzene		10.7	mg/m3	1.0	107	70	130			
Chlorodibromomethane		10.7	mg/m3	1.0	107	70	130			
Chloroethane		13.6	mg/m3	1.0	136	70	130			S
Chloroform		12.5	mg/m3	1.0	125	70	130			
Chloromethane		8.32	mg/m3	1.0	83	70	130			
cis-1,2-Dichloroethene		11.6	mg/m3	1.0	116	70	130			
cis-1,3-Dichloropropene		11.5	mg/m3	1.0	115	70	130			
Dibromomethane		11.8	mg/m3	1.0	118	70	130			
Dichlorodifluoromethane		9.80	mg/m3	1.0	98	70	130			
Ethylbenzene		10.9	mg/m3	1.0	109	70	130			
Hexachlorobutadiene		11.1	mg/m3	1.0	111	70	130			
Isopropylbenzene		10.2	mg/m3	1.0	102	70	130			
m+p-Xylenes		21.7	mg/m3	1.0	109	70	130			
Methyl ethyl ketone		105	mg/m3	20	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: C13040578-001AMS 64 Sample Matrix Spike										Run: 5975VOC1_130423A 04/23/13 12:05
Methylene chloride		12.0	mg/m3	1.0	120	70	130			
Naphthalene		11.2	mg/m3	1.0	112	70	130			
n-Butylbenzene		11.4	mg/m3	1.0	114	70	130			
n-Propylbenzene		10.2	mg/m3	1.0	102	70	130			
o-Xylene		10.6	mg/m3	1.0	106	70	130			
p-Isopropyltoluene		12.3	mg/m3	1.0	123	70	130			
sec-Butylbenzene		10.2	mg/m3	1.0	102	70	130			
Styrene		11.5	mg/m3	1.0	115	70	130			
tert-Butylbenzene		10.7	mg/m3	1.0	107	70	130			
Tetrachloroethene		11.1	mg/m3	1.0	111	70	130			
Toluene		10.6	mg/m3	1.0	106	70	130			
trans-1,2-Dichloroethene		12.5	mg/m3	1.0	125	70	130			
trans-1,3-Dichloropropene		12.2	mg/m3	1.0	122	70	130			
Trichloroethene		11.1	mg/m3	1.0	111	70	130			
Trichlorofluoromethane		11.8	mg/m3	1.0	118	70	130			
Vinyl chloride		9.64	mg/m3	1.0	96	70	130			
Surr: 1,2-Dichlorobenzene-d4				1.0	104	80	120			
Surr: Dibromofluoromethane				1.0	109	80	120			
Surr: p-Bromofluorobenzene				1.0	103	80	120			
Surr: Toluene-d8				1.0	118	80	120			
Sample ID: C13040578-001AMSD 64 Sample Matrix Spike Duplicate										Run: 5975VOC1_130423A 04/23/13 12:40
1,1,1,2-Tetrachloroethane		11.1	mg/m3	1.0	111	70	130	1.4	20	
1,1,1-Trichloroethane		12.0	mg/m3	1.0	120	70	130	6.8	20	
1,1,2,2-Tetrachloroethane		10.5	mg/m3	1.0	105	70	130	1.5	20	
1,1,2-Trichloroethane		10.7	mg/m3	1.0	107	70	130	2.2	20	
1,1-Dichloroethane		12.9	mg/m3	1.0	129	70	130	4.5	20	
1,1-Dichloroethene		11.7	mg/m3	1.0	117	70	130	4.0	20	
1,1-Dichloropropene		12.0	mg/m3	1.0	120	70	130	5.2	20	
1,2,3-Trichlorobenzene		11.5	mg/m3	1.0	115	70	130	1.4	20	
1,2,3-Trichloropropane		10.7	mg/m3	1.0	107	70	130	2.3	20	
1,2,4-Trichlorobenzene		10.8	mg/m3	1.0	108	70	130	3.6	20	
1,2,4-Trimethylbenzene		10.9	mg/m3	1.0	109	70	130	1.5	20	
1,2-Dibromo-3-chloropropane		10.8	mg/m3	1.0	108	70	130	0.0	20	
1,2-Dibromoethane		10.6	mg/m3	1.0	106	70	130	0.4	20	
1,2-Dichlorobenzene		10.7	mg/m3	1.0	107	70	130	0.7	20	
1,2-Dichloroethane		11.0	mg/m3	1.0	110	70	130	3.2	20	
1,2-Dichloropropane		10.4	mg/m3	1.0	104	70	130	4.9	20	
1,3,5-Trimethylbenzene		10.9	mg/m3	1.0	109	70	130	1.8	20	
1,3-Dichlorobenzene		10.6	mg/m3	1.0	106	70	130	2.6	20	
1,3-Dichloropropane		10.9	mg/m3	1.0	109	70	130	1.5	20	
1,4-Dichlorobenzene		10.9	mg/m3	1.0	109	70	130	2.2	20	
2,2-Dichloropropane		13.1	mg/m3	1.0	131	70	130	7.6	20	S
2-Chlorotoluene		10.0	mg/m3	1.0	100	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Deuell Environmental LLC

Report Date: 04/24/13

Project: 90125 Artesia

Work Order: C13040578

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B										Batch: R172786
Sample ID: C13040578-001AMSD 64 Sample Matrix Spike Duplicate										Run: 5975VOC1_130423A 04/23/13 12:40
4-Chlorotoluene		10.4	mg/m3	1.0	104	70	130	1.1	20	
Benzene		11.3	mg/m3	1.0	113	70	130	4.8	20	
Bromobenzene		10.6	mg/m3	1.0	106	70	130	0.4	20	
Bromochloromethane		12.2	mg/m3	1.0	122	70	130	0.0	20	
Bromodichloromethane		10.8	mg/m3	1.0	108	70	130	5.4	20	
Bromoform		10.7	mg/m3	1.0	107	70	130	3.8	20	
Bromomethane		9.36	mg/m3	1.0	94	70	130	4.8	20	
Carbon tetrachloride		12.1	mg/m3	1.0	121	70	130	8.2	20	
Chlorobenzene		10.3	mg/m3	1.0	103	70	130	4.2	20	
Chlorodibromomethane		10.5	mg/m3	1.0	105	70	130	1.9	20	
Chloroethane		14.0	mg/m3	1.0	140	70	130	2.6	20	S
Chloroform		11.8	mg/m3	1.0	118	70	130	5.6	20	
Chloromethane		12.4	mg/m3	1.0	124	70	130	40	20	R
cis-1,2-Dichloroethene		11.0	mg/m3	1.0	110	70	130	4.6	20	
cis-1,3-Dichloropropene		11.3	mg/m3	1.0	113	70	130	1.8	20	
Dibromomethane		11.6	mg/m3	1.0	116	70	130	1.7	20	
Dichlorodifluoromethane		9.20	mg/m3	1.0	92	70	130	6.3	20	
Ethylbenzene		10.3	mg/m3	1.0	103	70	130	5.7	20	
Hexachlorobutadiene		11.2	mg/m3	1.0	112	70	130	1.1	20	
Isopropylbenzene		10.1	mg/m3	1.0	101	70	130	1.6	20	
m+p-Xylenes		20.4	mg/m3	1.0	102	70	130	6.3	20	
Methyl ethyl ketone		108	mg/m3	20	108	70	130	3.4	20	
Methylene chloride		11.6	mg/m3	1.0	116	70	130	3.4	20	
Naphthalene		11.1	mg/m3	1.0	111	70	130	0.4	20	
n-Butylbenzene		11.1	mg/m3	1.0	111	70	130	3.2	20	
n-Propylbenzene		10.1	mg/m3	1.0	101	70	130	1.2	20	
o-Xylene		10.1	mg/m3	1.0	101	70	130	5.4	20	
p-Isopropyltoluene		12.0	mg/m3	1.0	120	70	130	2.6	20	
sec-Butylbenzene		10.0	mg/m3	1.0	100	70	130	1.2	20	
Styrene		11.0	mg/m3	1.0	110	70	130	4.6	20	
tert-Butylbenzene		10.6	mg/m3	1.0	106	70	130	0.7	20	
Tetrachloroethene		10.4	mg/m3	1.0	104	70	130	6.3	20	
Toluene		10.1	mg/m3	1.0	101	70	130	4.3	20	
trans-1,2-Dichloroethene		12.5	mg/m3	1.0	125	70	130	0.3	20	
trans-1,3-Dichloropropene		12.3	mg/m3	1.0	123	70	130	1.0	20	
Trichloroethane		10.4	mg/m3	1.0	104	70	130	6.3	20	
Trichlorofluoromethane		11.1	mg/m3	1.0	111	70	130	6.3	20	
Vinyl chloride		10.6	mg/m3	1.0	106	70	130	9.9	20	
Surr: 1,2-Dichlorobenzene-d4				1.0	106	80	120	0.0	10	
Surr: Dibromofluoromethane				1.0	108	80	120	0.0	10	
Surr: p-Bromofluorobenzene				1.0	104	80	120	0.0	10	
Surr: Toluene-d8				1.0	117	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

S - Spike recovery outside of advisory limits.



Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Deuell Environmental LLC

C13040578

Login completed by: Debra Williams

Date Received: 4/17/2013

Reviewed by: BL2000\kmilller

Received by: dw

Reviewed Date: 4/18/2013

Carrier FedEx
name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received?	Yes ☐	No ☐	Not Applicable ☒
Container/Temp Blank temperature:	N/A °C		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☒

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT (Provide as much information as possible.)

Company Name: <u>DEVEL ENVIRONMENTAL</u>		Project Name, PWS, Permit, Etc. <u>90125 BRICK</u>		Sample Origin State: <u>NM</u>		EPA/State Compliance: Yes ☐ No ☐		
Report Mail Address (Required): <u>1653 DIAMOND HEAD CT</u> <u>LARAMIE, WY 82072</u>		Contact Name: <u>Rick Decker</u>		Phone/Fax: <u>307 760 3277</u>		Cell: <u>90125, 5</u>		
Invoice Address (Required): <u>SAME</u>		Invoice Contact & Phone:		Purchase Order: <u>90125, 5</u>		Quote/Bottle Order:		
Special Report/Formats: ☐ DW ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____		☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC		ANALYSIS REQUESTED SEE ATTACHED		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	Standard Turnaround (TAT)	Comments:		
1 <u>90125-IMP. 4/13</u>		<u>4/16/13</u>	<u>16:00</u>	<u>1A K</u>	<u>BRCK</u>	Shipped by: <u>Fealox E</u> Cooler ID(s): <u>3982</u> Receipt Temp: <u>NA°C</u> On Ice: <u>Y</u> <u>N</u> Custody Seal On Bottle: <u>Y</u> <u>N</u> On Cooler: <u>Y</u> <u>N</u> Intact: <u>Y</u> <u>N</u> Signature Match: <u>Y</u> <u>N</u>		
2								
3								
4								
5								
6								
7								
8								
9								
10								
Custody Record MUST be Signed	Relinquished by (print): <u>Rick Decker</u>		Date/Time: <u>4/16/13 16:30</u>		Signature: <u>[Signature]</u>		Received by (print): _____	
	Relinquished by (print): _____		Date/Time: _____		Signature: _____		Received by (print): _____	
	Sample Disposal: _____		Return to Client: _____		Lab Disposal: _____		Received by Laboratory: <u>[Signature]</u>	
						Date/Time: <u>4-17-13</u>		
						Signature: <u>[Signature]</u>		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.