3R - 322

2012 AGWMR

04 / 10 / 2013

April 10, 2013

New Mexico Oil Conservation Division
Attn: Glenn von Goten
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: 2012 Annual Groundwater Reports
Williams Field Services, LLC
PO Box 3483, MD 48-6
Tulsa, Oklahoma 74101

Dear Mr. von Goten:

Please find attached to this letter the "2012 Annual Groundwater Reports" for the following three locations in the San Juan Basin for Williams Field Services, LLC:

- Ice Canyon Drip 3R-322
- Jicarilla Contract 147-6 3R-325
- Pritchard #2A 3R-339

If you have any questions or comments, please do not hesitate to contact us at (505) 326-2107 or (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Kyla Vaughan
Environmental Compliance Specialist

cc: Williams Field Services, LLC

2012 ANNUAL GROUNDWATER REPORT

ICE CANYON DRIP
ADMINISTRATIVE/ENVIRONOMENTAL ORDER NUMBER 3RP-322-0

APRIL 2013

Prepared for:

WILLIAMS FIELD SERVICES, LLC
TULSA, OKLAHOMA

2012 ANNUAL GROUNDWATER REPORT

ICE CANYON DRIP
ADMINISTRATIVE/ENVIRONMENTAL ORDER NUMBER
3RP-322-0

APRIL 2013

Prepared for:

WILLIAMS FIELD SERVICES, LLC
PO Box 3483, MD 48-6
Tulsa, Oklahoma 74101

Prepared by:

LT ENVIRONMENTAL, INC.
2243 Main Avenue, Suite 3
Durango, Colorado 81301
(970) 385-1096

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EXECUTIVE SUMMARY

Groundwater at the Ice Canyon Drip (Administrative/Environmental Order Number 3RP-322-0) (Site) is impacted by petroleum hydrocarbons in excess of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards for benzene, toluene, ethylbenzene, and total xylenes (BTEX) due to a release from a former drip pit. Williams Field Services, LLC (Williams) conducted groundwater monitoring activities at the Site between April 2012 and December 2012. In January 2013, LT Environmental Inc., (LTE) was retained by Williams to visit the Site and evaluate the status of all groundwater monitoring wells, complete annual sampling requirements, and recommend improvements to the groundwater remediation program.

Between April 2012 and March 2013, five groundwater monitoring events were conducted (April 2012, June 2012, September 2012, December 2012, and March 2013). Depth to groundwater and depth to free-phase hydrocarbon data for the monitoring events conducted in 2012 were not available. Depth to groundwater data in March 2013 indicate the groundwater flow is to the south/southwest.

BTEX concentrations in groundwater monitoring wells MW-1, MW-3, MW-4, MW-7, and MW-8 were compliant with the NMWQCC groundwater standards between April 2012 and March 2013. BTEX concentrations in groundwater monitoring wells MW-5 and SVE-4 were compliant with the NMWQCC groundwater standards between April 2012 and December 2012; however, both wells contained 0.01 feet of free-phase hydrocarbons in March 2013. The appearance of the free-phase hydrocarbons in these two wells may be the result of the groundwater table declining or mobilization of free-phase hydrocarbons from the source area (near monitoring well MW-2). Groundwater monitoring well MW-2 was not sampled between April 2012 and March 2013 due to an obstruction in the well. Groundwater monitoring well MW-6 was not sampled between April 2012 and March 2013, likely because the groundwater table has declined below the bottom of the well.

Williams proposes to discontinue quarterly BTEX sampling from groundwater monitoring wells MW-1 and MW-7; depth to groundwater data will continue to be collected. Groundwater monitoring wells MW-3, MW-4, MW-5, MW-6, MW-8, and SVE-4 will be monitored quarterly for depth to groundwater, depth to product, and collection of samples for BTEX analysis. Williams will install groundwater monitoring well MW-2R, a replacement for monitoring well MW-2 and will install a new groundwater monitoring well south/southwest of monitoring well MW-5.

1.0 INTRODUCTION

LT Environmental, Inc. (LTE) on behalf of Williams Field Services, LLC (Williams) has prepared this report detailing groundwater monitoring activities completed from April 2012 through March 2013 at the Ice Canyon Drip (Administrative/Environmental Order Number 3RP-322-0) (Site) (Figure 1). The scope of work for this project was continued monitoring of petroleum hydrocarbon impacts to groundwater as a result of operation of a former lined pit to collect drip gas and water from a condensate tank. From April 2012 through December 2012, Williams conducted groundwater sampling. In March 2013, LTE visited the Site to evaluate the status of all groundwater monitoring wells, complete annual sampling requirements, and recommend improvements to the groundwater remediation program.

1.1 LOCATION

The Site is located at latitude 36.485004 and longitude -107.522750 in Unit H, Section 13, Township 26 North, Range 7 West. The Site is in Ice Canyon in the San Juan Basin, Rio Arriba County, New Mexico.

1.2 HISTORY

Soil and groundwater was impacted by a former drip pit. Remediation included excavation of 383 cubic yards of impacted soil in June 1997. A soil sample from the bottom of the excavation at 23 feet below ground surface (bgs) contained 144 milligrams per kilogram (mg/kg) total petroleum hydrocarbons (TPH) – diesel range organics (DRO) and 278 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX). In November 1997, a groundwater monitoring well was installed in the excavation; depth to groundwater was 38 feet bgs and a groundwater sample contained 19,523 micrograms per liter (µg/L) of benzene. In January 1998, an additional 8,690 cubic yards of impacted soil was excavated. In May 1998, groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4 were installed; in December 1998, a 4-inch soil vapor extraction (SVE) well was installed. In 2000, groundwater monitoring wells MW-5, MW-6, MW-7, and MW-8 were installed.

Between May 1998 and December 2012, groundwater at the Site was monitored. Groundwater monitoring wells MW-2 and the 4-inch SVE wells have both contained free phase hydrocarbons at some time between 1998 and 2013. Records regarding these activities can be found in previous groundwater reports submitted to the New Mexico Oil Conservation Division (NMOCD).

In March 2013, a site visit was conducted by LTE to observe site conditions and evaluate the status of all groundwater monitoring wells. Depth to groundwater and depth to product were measured and groundwater samples were collected, when possible, for laboratory analysis of benzene, toluene, ethyl benzene and total xylene (BTEX).

2.0 METHODOLOGY

Groundwater monitoring activities were conducted at the Site in April 2012, June 2012, September 2012, December 2012, and March 2013. The April 2012 through December 2012 monitoring events were conducted by a third-party consultant and the methodology used is not known. Water level measurements were not available for the April 2012 through December 2012 monitoring events. Table 1 provides a cross-reference to match the sample identifier with the appropriate groundwater monitoring well for the April 2012 through December 2012 monitoring events. The first quarter 2013 monitoring event was conducted by LTE; the methodology used by LTE is discussed in this section.

2.1 WATER AND PRODUCT LEVEL MEASUREMENTS

Groundwater level monitoring included recording depth to groundwater measurements with a Keck oil/water interface probe. The presence of any free-phase petroleum hydrocarbons was investigated using the interface probe. The interface probe was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. These data are summarized in Table 2.

2.2 GROUNDWATER SAMPLING

Prior to sampling groundwater, depth to groundwater and total depth of monitoring wells were measured with a Keck oil/water interface probe. Groundwater monitoring wells containing measurable free-phase petroleum hydrocarbons were not sampled. The volume of water in each monitoring well was calculated, and a minimum of three well casing volumes of water was purged from each well using a new disposable polyvinyl chloride (PVC) bailer As water was removed from the well, pH, electric conductivity, and temperature were monitored. Monitoring wells were purged until these properties stabilized, indicating that the purge water was representative of aquifer conditions, or until the well was purged dry. Stabilization was defined as three consecutive stable readings for each water property (±0.4 units for pH, ±10 percent for electric conductivity and ±2° C for temperature). All purge water was containerized and disposed of at a facility designated by Williams. A copy of the laboratory reports are presented in Appendix A and copies of the field sheets are presented in Appendix B.

Once each monitoring well was properly purged, groundwater samples were collected by filling three 40-milliliter (ml) glass vials. The laboratory supplied vials were filled and capped with no air inside to prevent degradation of the sample. Samples were labeled with the date and time of collection, monitoring well designation, project name, collector's name, and parameters to be analyzed. They were immediately sealed and packed on ice. The samples were transferred to Hall Environmental Analysis Laboratory (HEAL) for analysis. Samples were stored on ice in a sealed cooler and maintained under chain-of-custody (COC) procedures. COC forms were completed documenting the date and time sampled, sample number, type of sample, sampler's name, preservative used (if any), analyses required, and sampler's signature.

2.3 GROUNDWATER CONTOUR MAPS

LTE used existing top of casing well elevations and groundwater elevations obtained from monitoring wells during the March 2013 site visit to draft a groundwater contour map (Figure 2). Contours were inferred based on groundwater elevations obtained and observations of physical characteristics at the Site (topography, proximity to irrigation ditches, etc.).

3.0 RESULTS

Depth to groundwater data during the March 2013 monitoring event are summarized on Table 2. Groundwater flow direction was determined to be to the south/southwest (Figure 2).

Groundwater monitoring well MW-2 was not sampled during any of the monitoring events due to an obstruction in the well and groundwater monitoring well MW-6 was not sampled during any of the monitoring events, likely because it was dry. Groundwater monitoring wells MW-1, MW-4, MW-7, and MW-8 were sampled during each monitoring event. BTEX was not detected above the laboratory reporting detection limit during any of the monitoring events. Groundwater monitoring well MW-3 was sampled twice and BTEX concentrations did not exceed the laboratory reporting detection limit. BTEX concentrations in groundwater monitoring well MW-5 did not exceed the laboratory reporting detection limit when sampled; however, 0.01 feet of free-phase hydrocarbons were observed during the March 2013 monitoring event. BTEX concentrations in groundwater monitoring well SVE-4 were compliant with the NMWQCC groundwater standards; but the well contained 0.01 feet of free-phase hydrocarbons during the March 2013 monitoring event. Table 3 summarizes the groundwater analytical results and copies of the laboratory reports can be found in Appendix A.

4.0 CONCLUSIONS

Information regarding the groundwater in the source area is not known due to the obstruction in groundwater monitoring well MW-2. Because free-phase hydrocarbons were present in groundwater monitoring well MW-2 in the past, it appears a decline in the elevation of the groundwater table is allowing free-phase hydrocarbons to mobilize into groundwater monitoring wells MW-5 and SVE-4; these free-phase hydrocarbons are migrating to the south (monitoring wells MW-5 and SVE-4). Groundwater monitoring well MW-8 suffices to monitor groundwater southeast of the source area; there currently is no downgradient groundwater monitoring well to monitor groundwater southwest of the source area and the free-phase hydrocarbons in monitoring well MW-5.

5.0 RECOMMENDATIONS

Based on BTEX results compliant with the NMWQCC standards for at least eight consecutive quarters or long term results compliant with the NMWQCC standards, Williams proposes to discontinue quarterly groundwater sampling activities from groundwater monitoring wells MW-1 and MW-7; depth to water data will still be collected from these wells. Williams proposes to collect depth to product, depth to groundwater, and samples for BTEX analysis from groundwater monitoring wells MW-3, MW-4, MW-5, MW-6, MW-8, and SVE-4 quarterly.

Lastly, Williams will replace groundwater monitoring well MW-2 and will install one new groundwater monitoring well downgradient of groundwater monitoring well MW-5. These new wells will be included in the quarterly groundwater monitoring events after installation.

FIGURES

LEGEND

SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

0 2,000 4,000

Feet

N

FIGURE 1
SITE LOCATION MAP
ICE CANYON DRIP
RIO ARRIBA COUNTY, NEW MEXICO

WILLIAMS FIELD SERVICES, LLC

P:\Williams Four Corners\GIS\MXD\034013001_ICE_CANYON_DRIP\034013001_ICE_CANYON_FIG01_SL.mxd

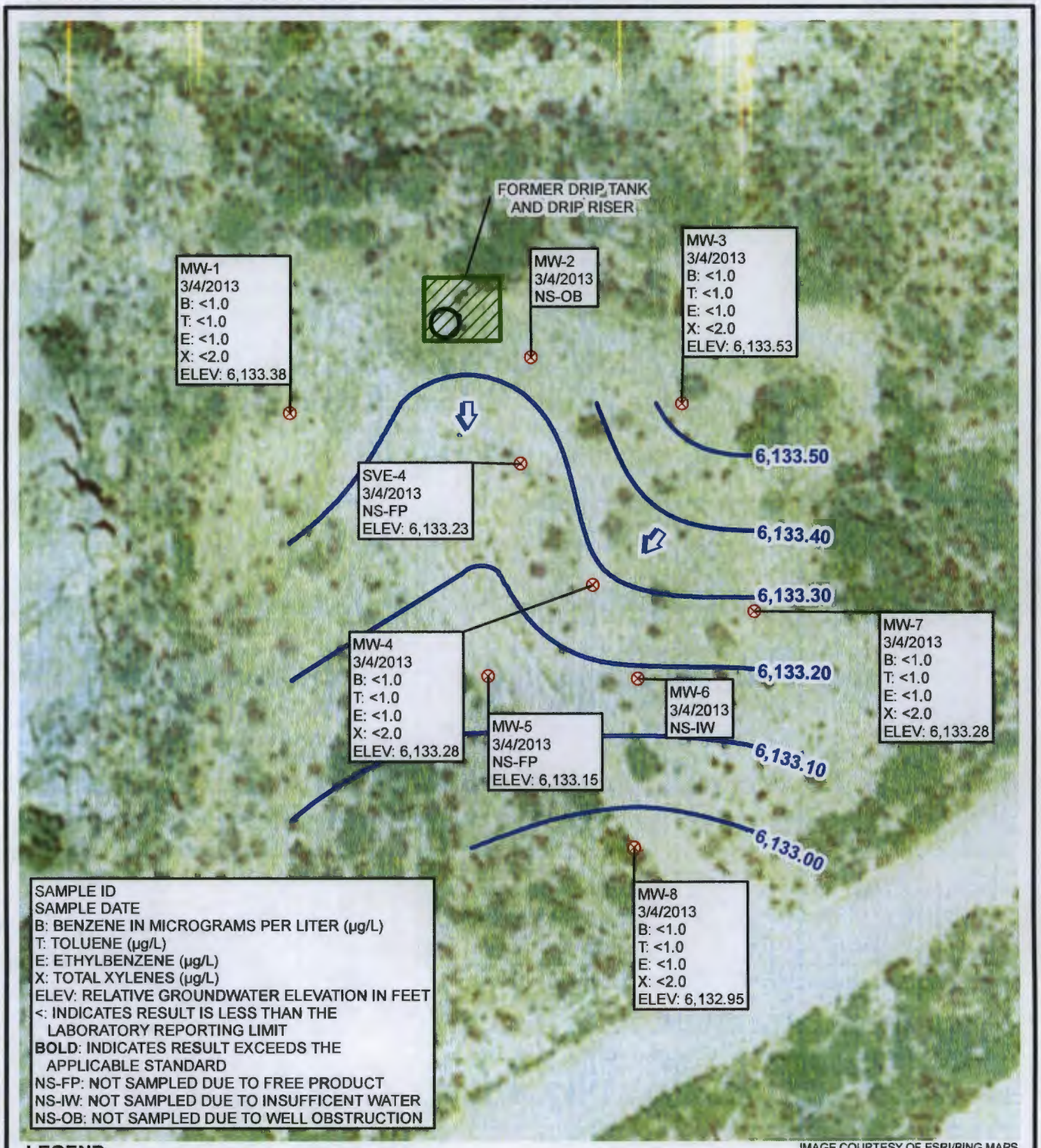

FIGURE 2
GROUNDWATER ELEVATION & ANALYTICAL RESULTS
ICE CANYON DRIP
RIO ARRIBA COUNTY, NEW MEXICO
WILLIAMS FIELD SERVICES, LLC

P:\Williams Four Corners\GIS\MXD\034013001_ICE_CANYON_DRIP\034013001_ICE_CANYON_FIG02_GWELEV_GWANALY.mxd

TABLES

TABLE 1

CROSS REFERENCE WELL NAME AND SAMPLE IDENTIFIER
APRIL 2012 THROUGH DECEMBER 2012 SAMPLE DATES
ICE CANYON DRIP
WILLIAMS FIELD SERVICES, LLC

Sample Identifier	Well Name	Sample Date
134206APR06	MW-1	4/6/2012
104014JUN12	MW-1	6/14/2012
122127SEP12	MW-1	9/27/2012
113607DEC12	MW-1	12/7/2012
120207DEC12	MW-3	12/7/2012
142006APR06	MW-4	4/6/2012
110414JUN12	MW-4	6/14/2012
134427SEP12	MW-4	9/27/2012
121007DEC12	MW-4	12/7/2012
143106APR06	MW-5	4/6/2012
111514JUN12	MW-5	6/14/2012
135227SEP12	MW-5	9/27/2012
122007DEC12	MW-5	12/7/2012
140706APR06	MW-7	4/6/2012
105814JUN12	MW-7	6/14/2012
125627SEP12	MW-7	9/27/2012
115507DEC12	MW-7	12/7/2012
132806APR06	MW-8	4/6/2012
103314JUN12	MW-8	6/14/2012
121027SEP12	MW-8	9/27/2012
112407DEC12	MW-8	12/7/2012
135506APR06	SVE-4	4/6/2012
104814JUN12	SVE-4	6/14/2012
114507DEC12	SVE-4	12/7/2012

Note:
Samples summarized in this table were not collected by LTE

TABLE 2

GROUNDWATER ELEVATION SUMMARY
ICE CANYON DRIP
WILLIAMS FOUR CORNERS, LLC

Well ID	Date	Depth to Product (feet BTOC)	Product Thickness (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	4/6/2012	UNK	UNK	UNK	UNK
MW-1	6/14/2012	UNK	UNK	UNK	UNK
MW-1	9/27/2012	UNK	UNK	UNK	UNK
MW-1	12/7/2012	UNK	UNK	UNK	UNK
MW-1	3/4/2013	NP	NP	46.75	6133.38
MW-2	4/6/2012	UNK	UNK	UNK	UNK
MW-2	6/14/2012	UNK	UNK	UNK	UNK
MW-2	9/27/2012	UNK	UNK	UNK	UNK
MW-2	12/7/2012	UNK	UNK	UNK	UNK
MW-2	3/4/2013	OBS	OBS	OBS	OBS
MW-3	4/6/2012	UNK	UNK	UNK	UNK
MW-3	6/14/2012	UNK	UNK	UNK	UNK
MW-3	9/27/2012	UNK	UNK	UNK	UNK
MW-3	12/7/2012	UNK	UNK	UNK	UNK
MW-3	3/4/2013	NP	NP	40.66	6133.53
MW-4	4/6/2012	UNK	UNK	UNK	UNK
MW-4	6/14/2012	UNK	UNK	UNK	UNK
MW-4	9/27/2012	UNK	UNK	UNK	UNK
MW-4	12/7/2012	UNK	UNK	UNK	UNK
MW-4	3/4/2013	NP	NP	40.45	6133.28
MW-5	4/6/2012	UNK	UNK	UNK	UNK
MW-5	6/14/2012	UNK	UNK	UNK	UNK
MW-5	9/27/2012	UNK	UNK	UNK	UNK
MW-5	12/7/2012	UNK	UNK	UNK	UNK
MW-5	3/4/2013	36.82	0.01	36.83	6133.15
MW-6	4/6/2012	UNK	UNK	UNK	UNK
MW-6	6/14/2012	UNK	UNK	UNK	UNK
MW-6	9/27/2012	UNK	UNK	UNK	UNK
MW-6	12/7/2012	UNK	UNK	UNK	UNK

TABLE 2

GROUNDWATER ELEVATION SUMMARY
ICE CANYON DRIP
WILLIAMS FOUR CORNERS, LLC

Well ID	Date	Depth to Product (feet BTOC)	Product Thickness (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-6	3/4/2013	DRY	DRY	DRY	DRY
MW-7	4/6/2012	UNK	UNK	UNK	UNK
MW-7	6/14/2012	UNK	UNK	UNK	UNK
MW-7	9/27/2012	UNK	UNK	UNK	UNK
MW-7	12/7/2012	UNK	UNK	UNK	UNK
MW-7	3/4/2013	NP	NP	38.28	6133.28
MW-8	4/6/2012	UNK	UNK	UNK	UNK
MW-8	6/14/2012	UNK	UNK	UNK	UNK
MW-8	9/27/2012	UNK	UNK	UNK	UNK
MW-8	12/7/2012	UNK	UNK	UNK	UNK
MW-8	3/4/2013	NP	NP	34.69	6132.95
SVE-4	4/6/2012	UNK	UNK	UNK	UNK
SVE-4	6/14/2012	UNK	UNK	UNK	UNK
SVE-4	9/27/2012	UNK	UNK	UNK	UNK
SVE-4	12/7/2012	UNK	UNK	UNK	UNK
SVE-4	3/4/2013	42.72	0.01	42.73	6133.23

Notes:

BTOC - Below Top of Casing

AMSL - Above Mean Sea Level

NP - No Product

OBS - well was obstructed

UNK - data is not known

Groundwater elevation calculation in wells with product: (Top of Casing Elevation - Depth to Water) + (Product Thickness * 0.8)

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS
ICE CANYON DRIP
WILLIAMS FIELD SERVICES, LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		**10**	**750**	**750**	**620**
MW-1	4/6/2012	<1.0	<1.0	<1.0	<3.0
MW-1	6/14/2012	<1.0	<1.0	<1.0	<3.0
MW-1	9/27/2012	<1.0	<1.0	<1.0	<3.0
MW-1	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-1	3/4/2013	<1.0	<1.0	<1.0	<2.0
MW-2	4/6/2012	NS	NS	NS	NS
MW-2	6/14/2012	NS	NS	NS	NS
MW-2	9/27/2012	NS	NS	NS	NS
MW-2	12/7/2012	NS	NS	NS	NS
MW-2	3/4/2013	NSO	NSO	NSO	NSO
MW-3	4/6/2012	NS	NS	NS	NS
MW-3	6/14/2012	NS	NS	NS	NS
MW-3	9/27/2012	NS	NS	NS	NS
MW-3	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-3	3/4/2013	<1.0	<1.0	<1.0	<2.0
MW-4	4/6/2012	<1.0	<1.0	<1.0	<3.0
MW-4	6/14/2012	<1.0	<1.0	<1.0	<3.0
MW-4	9/27/2012	<1.0	<1.0	<1.0	<3.0
MW-4	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-4	3/4/2013	<1.0	<1.0	<1.0	<2.0
MW-5	4/6/2012	<1.0	<1.0	<1.0	<3.0
MW-5	6/14/2012	<1.0	<1.0	<1.0	<3.0
MW-5	9/27/2012	<1.0	<1.0	<1.0	<3.0
MW-5	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-5	3/4/2013	NSP	NSP	NSP	NSP
MW-6	4/6/2012	NS	NS	NS	NS
MW-6	6/14/2012	NS	NS	NS	NS
MW-6	9/27/2012	NS	NS	NS	NS

TABLE 3

GROUNDWATER LABORATORY ANALYTICAL RESULTS
ICE CANYON DRIP
WILLIAMS FIELD SERVICES, LLC

Well Name	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
NMWQCC Standard (µg/L)		**10**	**750**	**750**	**620**
MW-6	12/7/2012	NS	NS	NS	NS
MW-6	3/4/2013	NSD	NSD	NSD	NSD
MW-7	4/6/2012	<1.0	<1.0	<1.0	<3.0
MW-7	6/14/2012	<1.0	<1.0	<1.0	<3.0
MW-7	9/27/2012	<1.0	<1.0	<1.0	<3.0
MW-7	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-7	3/4/2013	<1.0	<1.0	<1.0	<2.0
MW-8	4/6/2012	<1.0	<1.0	<1.0	<3.0
MW-8	6/14/2012	<1.0	<1.0	<1.0	<3.0
MW-8	9/27/2012	<1.0	<1.0	<1.0	<3.0
MW-8	12/7/2012	<1.0	<1.0	<1.0	<3.0
MW-8	3/4/2013	<1.0	<1.0	<1.0	<2.0
SVE-4	4/6/2012	3.7	63.9	2.3	142
SVE-4	6/14/2012	3.1	52.7	1.5	121
SVE-4	9/27/2012	NS	NS	NS	NS
SVE-4	12/7/2012	<5.0	38.5	<5.0	92.6
SVE-4	3/4/2013	NSP	NSP	NSP	NSP

Notes:
NMWQCC - New Mexico Water Quality Control Commission
NS- not sampled
NSD - well did not contain sufficient volume of water to be sampled
NSO - well was not sampled due to an obstruction
NSP - not sampled due to the presence of free phase hydrocarbons in the well
µg/L - micrograms per liter
< - indicates result is less than laboratory reporting detection limit
Bold - indicates sample exceeds NMWQCC standard

APPENDIX A
ANALYTICAL LABORATORY REPORTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

April 17, 2012

Mr. Mark Harvey
Mile High Environmental
811 B West Apache
Farmington, NM 87401

RE: Project: NM GW
Pace Project No.: 60119078

Dear Mr. Harvey:
Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: NM GW
Pace Project No.: 60119078

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: NM GW
Pace Project No.: 60119078

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60119078001	**163102APR06**	Water	04/02/12 16:31	04/10/12 10:00
60119078002	**163902APR06**	Water	04/02/12 16:39	04/10/12 10:00
60119078003	**164902APR06**	Water	04/02/12 16:49	04/10/12 10:00
60119078004	**132806APR06**	Water	04/06/12 13:28	04/10/12 10:00
60119078005	**134206APR06**	Water	04/06/12 13:42	04/10/12 10:00
60119078006	**135506APR06**	Water	04/06/12 13:55	04/10/12 10:00
60119078007	**140706APR06**	Water	04/06/12 14:07	04/10/12 10:00
60119078008	**142006APR06**	Water	04/06/12 14:20	04/10/12 10:00
60119078009	**143106APR06**	Water	04/06/12 14:31	04/10/12 10:00
60119078010	**EDD**	Water	04/06/12 00:00	04/10/12 10:00

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: NM GW
Pace Project No.: 60119078

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60119078001	163102APR06	EPA 8260	JTS	9
60119078002	163902APR06	EPA 8260	JTS	9
60119078003	164902APR06	EPA 8260	JTS	9
60119078004	132806APR06	EPA 8260	JTS	9
60119078005	134206APR06	EPA 8260	JTS	9
60119078006	135506APR06	EPA 8260	RNS	9
60119078007	140706APR06	EPA 8260	RNS	9
60119078008	142006APR06	EPA 8260	RNS	9
60119078009	143106APR06	EPA 8260	RNS	9

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 163102APR06 **Lab ID: 60119078001** Collected: 04/02/12 16:31 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 13:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 13:54	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 13:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 13:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		04/12/12 13:54	1868-53-7	
Toluene-d8 (S)	95	%	90-110	1		04/12/12 13:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		04/12/12 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	82-119	1		04/12/12 13:54	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 13:54		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 163902APR06 **Lab ID: 60119078002** Collected: 04/02/12 16:39 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**10000**	ug/L	100	100		04/12/12 14:11	71-43-2	
Ethylbenzene	**710**	ug/L	100	100		04/12/12 14:11	100-41-4	
Toluene	ND	ug/L	100	100		04/12/12 14:11	108-88-3	
Xylene (Total)	**6390**	ug/L	300	100		04/12/12 14:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	86-112	100		04/12/12 14:11	1868-53-7	
Toluene-d8 (S)	100	%	90-110	100		04/12/12 14:11	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	100		04/12/12 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	82-119	100		04/12/12 14:11	17060-07-0	
Preservation pH	**1.0**		1.0	100		04/12/12 14:11		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 164902APR06 **Lab ID: 60119078003** Collected: 04/02/12 16:49 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 14:27	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 14:27	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 14:27	108-88-3	
Xylene (Total)	**6.1**	ug/L	3.0	1		04/12/12 14:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	86-112	1		04/12/12 14:27	1868-53-7	
Toluene-d8 (S)	96	%	90-110	1		04/12/12 14:27	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-113	1		04/12/12 14:27	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	82-119	1		04/12/12 14:27	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 14:27		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 132806APR06 **Lab ID: 60119078004** Collected: 04/06/12 13:28 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 14:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 14:43	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 14:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 14:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		04/12/12 14:43	1868-53-7	
Toluene-d8 (S)	96	%	90-110	1		04/12/12 14:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		04/12/12 14:43	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	82-119	1		04/12/12 14:43	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 14:43		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 134206APR06 **Lab ID: 60119078005** Collected: 04/06/12 13:42 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 15:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 15:00	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 15:00	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 15:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	86-112	1		04/12/12 15:00	1868-53-7	
Toluene-d8 (S)	94	%	90-110	1		04/12/12 15:00	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		04/12/12 15:00	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	82-119	1		04/12/12 15:00	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 15:00		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 135506APR06 **Lab ID: 60119078006** Collected: 04/06/12 13:55 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**3.7**	ug/L	1.0	1		04/14/12 04:57	71-43-2	
Ethylbenzene	**63.9**	ug/L	1.0	1		04/14/12 04:57	100-41-4	
Toluene	**2.3**	ug/L	1.0	1		04/14/12 04:57	108-88-3	
Xylene (Total)	**142**	ug/L	3.0	1		04/14/12 04:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	86-112	1		04/14/12 04:57	1868-53-7	
Toluene-d8 (S)	109	%	90-110	1		04/14/12 04:57	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		04/14/12 04:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	82-119	1		04/14/12 04:57	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/14/12 04:57		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 140706APR06 **Lab ID: 60119078007** Collected: 04/06/12 14:07 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 10:03	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 10:03	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 10:03	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 10:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%	86-112	1		04/12/12 10:03	1868-53-7	
Toluene-d8 (S)	97	%	90-110	1		04/12/12 10:03	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		04/12/12 10:03	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	82-119	1		04/12/12 10:03	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 10:03		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 142006APR06 **Lab ID: 60119078008** Collected: 04/06/12 14:20 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 10:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 10:18	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 10:18	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 10:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	86-112	1		04/12/12 10:18	1868-53-7	
Toluene-d8 (S)	98	%	90-110	1		04/12/12 10:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-113	1		04/12/12 10:18	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		04/12/12 10:18	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 10:18		

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ANALYTICAL RESULTS

Project: NM GW
Pace Project No.: 60119078

Sample: 143106APR06 **Lab ID: 60119078009** Collected: 04/06/12 14:31 Received: 04/10/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/12/12 10:33	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/12/12 10:33	100-41-4	
Toluene	ND	ug/L	1.0	1		04/12/12 10:33	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/12/12 10:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	86-112	1		04/12/12 10:33	1868-53-7	
Toluene-d8 (S)	96	%	90-110	1		04/12/12 10:33	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-113	1		04/12/12 10:33	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	82-119	1		04/12/12 10:33	17060-07-0	
Preservation pH	**1.0**		1.0	1		04/12/12 10:33		

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QUALITY CONTROL DATA

Project: NM GW
Pace Project No.: 60119078

QC Batch: MSV/44874 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60119078001, 60119078002, 60119078003, 60119078004, 60119078005

METHOD BLANK: 980212 Matrix: Water
Associated Lab Samples: 60119078001, 60119078002, 60119078003, 60119078004, 60119078005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/12/12 09:50	
Ethylbenzene	ug/L	ND	1.0	04/12/12 09:50	
Toluene	ug/L	ND	1.0	04/12/12 09:50	
Xylene (Total)	ug/L	ND	3.0	04/12/12 09:50	
1,2-Dichloroethane-d4 (S)	%	90	82-119	04/12/12 09:50	
4-Bromofluorobenzene (S)	%	102	87-113	04/12/12 09:50	
Dibromofluoromethane (S)	%	89	86-112	04/12/12 09:50	
Toluene-d8 (S)	%	95	90-110	04/12/12 09:50	

LABORATORY CONTROL SAMPLE: 980213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.1	91	82-117	
Ethylbenzene	ug/L	20	18.3	91	79-121	
Toluene	ug/L	20	19.3	96	80-120	
Xylene (Total)	ug/L	60	55.5	92	79-120	
1,2-Dichloroethane-d4 (S)	%			91	82-119	
4-Bromofluorobenzene (S)	%			101	87-113	
Dibromofluoromethane (S)	%			93	86-112	
Toluene-d8 (S)	%			91	90-110	

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QUALITY CONTROL DATA

Project: NM GW
Pace Project No.: 60119078

QC Batch: MSV/44875 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60119078007, 60119078008, 60119078009

METHOD BLANK: 980214 Matrix: Water
Associated Lab Samples: 60119078007, 60119078008, 60119078009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/12/12 09:48	
Ethylbenzene	ug/L	ND	1.0	04/12/12 09:48	
Toluene	ug/L	ND	1.0	04/12/12 09:48	
Xylene (Total)	ug/L	ND	3.0	04/12/12 09:48	
1,2-Dichloroethane-d4 (S)	%	101	82-119	04/12/12 09:48	
4-Bromofluorobenzene (S)	%	102	87-113	04/12/12 09:48	
Dibromofluoromethane (S)	%	100	86-112	04/12/12 09:48	
Toluene-d8 (S)	%	97	90-110	04/12/12 09:48	

LABORATORY CONTROL SAMPLE: 980215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	22.0	110	82-117	
Ethylbenzene	ug/L	20	20.6	103	79-121	
Toluene	ug/L	20	21.0	105	80-120	
Xylene (Total)	ug/L	60	61.1	102	79-120	
1,2-Dichloroethane-d4 (S)	%			102	82-119	
4-Bromofluorobenzene (S)	%			100	87-113	
Dibromofluoromethane (S)	%			103	86-112	
Toluene-d8 (S)	%			98	90-110	

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QUALITY CONTROL DATA

Project: NM GW
Pace Project No.: 60119078

QC Batch: MSV/44918 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60119078006

METHOD BLANK: 981471 Matrix: Water
Associated Lab Samples: 60119078006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/14/12 04:26	
Ethylbenzene	ug/L	ND	1.0	04/14/12 04:26	
Toluene	ug/L	ND	1.0	04/14/12 04:26	
Xylene (Total)	ug/L	ND	3.0	04/14/12 04:26	
1,2-Dichloroethane-d4 (S)	%	103	82-119	04/14/12 04:26	
4-Bromofluorobenzene (S)	%	99	87-113	04/14/12 04:26	
Dibromofluoromethane (S)	%	101	86-112	04/14/12 04:26	
Toluene-d8 (S)	%	100	90-110	04/14/12 04:26	

LABORATORY CONTROL SAMPLE: 981472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.5	98	82-117	
Ethylbenzene	ug/L	20	18.4	92	79-121	
Toluene	ug/L	20	19.2	96	80-120	
Xylene (Total)	ug/L	60	56.7	95	79-120	
1,2-Dichloroethane-d4 (S)	%			104	82-119	
4-Bromofluorobenzene (S)	%			102	87-113	
Dibromofluoromethane (S)	%			101	86-112	
Toluene-d8 (S)	%			102	90-110	

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QUALIFIERS

Project: NM GW
Pace Project No.: 60119078

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/44874

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/44875

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/44918

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GW
Pace Project No.: 60119078

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60119078001	163102APR06	EPA 8260	MSV/44874		
60119078002	163902APR06	EPA 8260	MSV/44874		
60119078003	164902APR06	EPA 8260	MSV/44874		
60119078004	132806APR06	EPA 8260	MSV/44874		
60119078005	134206APR06	EPA 8260	MSV/44874		
60119078006	135506APR06	EPA 8260	MSV/44918		
60119078007	140706APR06	EPA 8260	MSV/44875		
60119078008	142006APR06	EPA 8260	MSV/44875		
60119078009	143106APR06	EPA 8260	MSV/44875		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1369885

Section A Required Client Information:

Company:	MILE HIGH SERVICES
Address:	811 B. WEST APACHE
	FARMINGTON, NM 87401
Email To:	
Phone: 505-326-5422	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	M. HARVEY
Copy To:	
Purchase Order No.:	
Project Name:	NM GW
Project Number:	FLR47X + ICE

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	163102APR06	WT	G	4-2-12			16:31		2				✓					✓	✓		FLR47X-1 01
2	163902APR06	"	"	"			16:39		1				✓					✓	✓		FLR47X-2 02
3	164902APR06	"	"	"			16:49		2				✓					✓	✓		FLR47X-4 03
4	132806APR06			4-6-12			13:28		2				✓					✓			ICE-8 04
5	134206APR06			"			13:42		2				✓					✓			ICE-1 05
6	135506APR06			"			13:55		2				✓					✓			ICE-SVE4 06
7	140706APR06			"			14:07		2				✓					✓			ICE-7 07
8	142006APR06			"			14:20		2				✓					✓			ICE-4 08
9	143106APR06	↓	↓	"			14:31		2				✓					✓	↓		ICE-5 09
10																					
11																					
12																					

Pace Project No./ Lab I.D. (Residual Chlorine (Y/N)): 60119078

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	M. HARVEY / MILE HIGH	4-9-12	3:50p	FED-EX	4-9					
				[signature]	4/10	1000	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. HARVEY

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4-9-12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

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Client Name: mile High Project # 60119078

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 8001 1020 5172 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date:
Proj. Name: 4/17

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 4.0

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: JN 4-10-12

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☐Yes ☑No ☐N/A	15.
Pace Trip Blank lot # (if purchased): ____		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: ____

Client Notification/ Resolution: Copy COC to Client? (Y) / N Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: [signature] Date: 4/10/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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June 22, 2012

Mr. Mark Harvey
Mile High Environmental
811 B West Apache
Farmington, NM 87401

RE: Project: NM GW DVS & ICE
Pace Project No.: 60123513

Dear Mr. Harvey:
Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60123513001	191613JUN12	Water	06/13/12 19:16	06/18/12 08:45
60123513002	192413JUN12	Water	06/13/12 19:24	06/18/12 08:45
60123513003	193113JUN12	Water	06/13/12 19:31	06/18/12 08:45
60123513004	193913JUN12	Water	06/13/12 19:39	06/18/12 08:45
60123513005	103314JUN12	Water	06/14/12 10:33	06/18/12 08:45
60123513006	104014JUN12	Water	06/14/12 10:40	06/18/12 08:45
60123513007	104814JUN12	Water	06/14/12 10:48	06/18/12 08:45
60123513008	105814JUN12	Water	06/14/12 10:58	06/18/12 08:45
60123513009	110414JUN12	Water	06/14/12 11:04	06/18/12 08:45
60123513010	111514JUN12	Water	06/14/12 11:15	06/18/12 08:45
60123513011	TRIP BLANK	Water	06/14/12 00:00	06/18/12 08:45
60123513012	EDD	Water	06/14/12 00:00	06/18/12 08:45

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SAMPLE ANALYTE COUNT

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60123513001	191613JUN12	EPA 8260	JTK	9
60123513002	192413JUN12	EPA 8260	JTK	9
60123513003	193113JUN12	EPA 8260	JTK	9
60123513004	193913JUN12	EPA 8260	JTK	9
60123513005	103314JUN12	EPA 8260	JTK	9
60123513006	104014JUN12	EPA 8260	JTK	9
60123513007	104814JUN12	EPA 8260	JTK	9
60123513008	105814JUN12	EPA 8260	JTK	9
60123513009	110414JUN12	EPA 8260	JTK	9
60123513010	111514JUN12	EPA 8260	JTK	9
60123513011	TRIP BLANK	EPA 8260	JTK	9

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 191613JUN12 **Lab ID: 60123513001** Collected: 06/13/12 19:16 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 08:30	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 08:30	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 08:30	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 08:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	86-112	1		06/19/12 08:30	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		06/19/12 08:30	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 08:30	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		06/19/12 08:30	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 08:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 192413JUN12 **Lab ID: 60123513002** Collected: 06/13/12 19:24 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 08:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 08:47	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 08:47	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 08:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	86-112	1		06/19/12 08:47	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		06/19/12 08:47	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 08:47	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		06/19/12 08:47	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 08:47		

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 193113JUN12 **Lab ID: 60123513003** Collected: 06/13/12 19:31 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 09:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 09:04	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 09:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 09:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	86-112	1		06/19/12 09:04	1868-53-7	
Toluene-d8 (S)	98	%	90-110	1		06/19/12 09:04	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-113	1		06/19/12 09:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		06/19/12 09:04	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 09:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 193913JUN12 **Lab ID: 60123513004** Collected: 06/13/12 19:39 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 09:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 09:21	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 09:21	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 09:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	86-112	1		06/19/12 09:21	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		06/19/12 09:21	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-113	1		06/19/12 09:21	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		06/19/12 09:21	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 09:21		

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 103314JUN12 **Lab ID: 60123513005** Collected: 06/14/12 10:33 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 09:38	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 09:38	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 09:38	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 09:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	86-112	1		06/19/12 09:38	1868-53-7	
Toluene-d8 (S)	100	%	90-110	1		06/19/12 09:38	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 09:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		06/19/12 09:38	17060-07-0	
Preservation pH	**7.0**		1.0	1		06/19/12 09:38		pH

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 104014JUN12 **Lab ID: 60123513006** Collected: 06/14/12 10:40 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 09:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 09:54	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 09:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 09:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	86-112	1		06/19/12 09:54	1868-53-7	
Toluene-d8 (S)	101	%	90-110	1		06/19/12 09:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 09:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	82-119	1		06/19/12 09:54	17060-07-0	
Preservation pH	**7.0**		1.0	1		06/19/12 09:54		pH

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 104814JUN12 **Lab ID: 60123513007** Collected: 06/14/12 10:48 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**3.1**	ug/L	1.0	1		06/19/12 20:28	71-43-2	
Ethylbenzene	**52.7**	ug/L	1.0	1		06/19/12 20:28	100-41-4	
Toluene	**1.5**	ug/L	1.0	1		06/19/12 20:28	108-88-3	
Xylene (Total)	**121**	ug/L	3.0	1		06/19/12 20:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	86-112	1		06/19/12 20:28	1868-53-7	
Toluene-d8 (S)	110	%	90-110	1		06/19/12 20:28	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	82-119	1		06/19/12 20:28	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 20:28		

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 105814JUN12 **Lab ID: 60123513008** Collected: 06/14/12 10:58 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 10:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 10:29	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 10:29	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 10:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%	86-112	1		06/19/12 10:29	1868-53-7	
Toluene-d8 (S)	105	%	90-110	1		06/19/12 10:29	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-113	1		06/19/12 10:29	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	82-119	1		06/19/12 10:29	17060-07-0	
Preservation pH	**7.0**		1.0	1		06/19/12 10:29		pH

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 110414JUN12 **Lab ID: 60123513009** Collected: 06/14/12 11:04 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 20:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 20:45	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 20:45	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 20:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	86-112	1		06/19/12 20:45	1868-53-7	
Toluene-d8 (S)	104	%	90-110	1		06/19/12 20:45	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-113	1		06/19/12 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	82-119	1		06/19/12 20:45	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 20:45		

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: 111514JUN12 **Lab ID: 60123513010** Collected: 06/14/12 11:15 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 21:02	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 21:02	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 21:02	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 21:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%	86-112	1		06/19/12 21:02	1868-53-7	
Toluene-d8 (S)	102	%	90-110	1		06/19/12 21:02	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-113	1		06/19/12 21:02	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	82-119	1		06/19/12 21:02	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 21:02		

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ANALYTICAL RESULTS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Sample: TRIP BLANK **Lab ID: 60123513011** Collected: 06/14/12 00:00 Received: 06/18/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/19/12 21:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/19/12 21:18	100-41-4	
Toluene	ND	ug/L	1.0	1		06/19/12 21:18	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/19/12 21:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	86-112	1		06/19/12 21:18	1868-53-7	
Toluene-d8 (S)	99	%	90-110	1		06/19/12 21:18	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-113	1		06/19/12 21:18	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	82-119	1		06/19/12 21:18	17060-07-0	
Preservation pH	**1.0**		1.0	1		06/19/12 21:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NM GW DVS & ICE
Pace Project No.: 60123513

QC Batch: MSV/46452 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60123513001, 60123513002, 60123513003, 60123513004, 60123513005, 60123513006, 60123513008

METHOD BLANK: 1016022 Matrix: Water
Associated Lab Samples: 60123513001, 60123513002, 60123513003, 60123513004, 60123513005, 60123513006, 60123513008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/19/12 06:46	
Ethylbenzene	ug/L	ND	1.0	06/19/12 06:46	
Toluene	ug/L	ND	1.0	06/19/12 06:46	
Xylene (Total)	ug/L	ND	3.0	06/19/12 06:46	
1,2-Dichloroethane-d4 (S)	%	95	82-119	06/19/12 06:46	
4-Bromofluorobenzene (S)	%	103	87-113	06/19/12 06:46	
Dibromofluoromethane (S)	%	102	86-112	06/19/12 06:46	
Toluene-d8 (S)	%	103	90-110	06/19/12 06:46	

LABORATORY CONTROL SAMPLE: 1016023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	93	82-117	
Ethylbenzene	ug/L	20	19.0	95	79-121	
Toluene	ug/L	20	19.6	98	80-120	
Xylene (Total)	ug/L	60	55.9	93	79-120	
1,2-Dichloroethane-d4 (S)	%			95	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			104	90-110	

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QUALITY CONTROL DATA

Project: NM GW DVS & ICE
Pace Project No.: 60123513

QC Batch: MSV/46486 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60123513007, 60123513009, 60123513010, 60123513011

METHOD BLANK: 1016544 Matrix: Water
Associated Lab Samples: 60123513007, 60123513009, 60123513010, 60123513011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/19/12 19:37	
Ethylbenzene	ug/L	ND	1.0	06/19/12 19:37	
Toluene	ug/L	ND	1.0	06/19/12 19:37	
Xylene (Total)	ug/L	ND	3.0	06/19/12 19:37	
1,2-Dichloroethane-d4 (S)	%	94	82-119	06/19/12 19:37	
4-Bromofluorobenzene (S)	%	104	87-113	06/19/12 19:37	
Dibromofluoromethane (S)	%	106	86-112	06/19/12 19:37	
Toluene-d8 (S)	%	103	90-110	06/19/12 19:37	

LABORATORY CONTROL SAMPLE: 1016545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.6	93	82-117	
Ethylbenzene	ug/L	20	20.4	102	79-121	
Toluene	ug/L	20	20.2	101	80-120	
Xylene (Total)	ug/L	60	59.2	99	79-120	
1,2-Dichloroethane-d4 (S)	%			90	82-119	
4-Bromofluorobenzene (S)	%			103	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			100	90-110	

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QUALIFIERS

Project: NM GW DVS & ICE
Pace Project No.: 60123513

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/46452

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/46486

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GW DVS & ICE
Pace Project No.: 60123513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60123513001	**191613JUN12**	EPA 8260	MSV/46452		
60123513002	**192413JUN12**	EPA 8260	MSV/46452		
60123513003	**193113JUN12**	EPA 8260	MSV/46452		
60123513004	**193913JUN12**	EPA 8260	MSV/46452		
60123513005	**103314JUN12**	EPA 8260	MSV/46452		
60123513006	**104014JUN12**	EPA 8260	MSV/46452		
60123513007	**104814JUN12**	EPA 8260	MSV/46486		
60123513008	**105814JUN12**	EPA 8260	MSV/46452		
60123513009	**110414JUN12**	EPA 8260	MSV/46486		
60123513010	**111514JUN12**	EPA 8260	MSV/46486		
60123513011	**TRIP BLANK**	EPA 8260	MSV/46486		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1372651

Section A Required Client Information:

Company:	MILE HIGH SERVICES
Address:	811 B, WEST APACHE
	FARMINGTON, NM 87401
Email To:	
Phone:	505-326-5422
Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	M. HARVEY
Copy To:	
Purchase Order No.:	
Project Name:	NM GW
Project Number:	DVS + ICE

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
1	191613 JUN 12 2DG9H	WT	G			6-13	19:16		2				✓					✓	✓		60123513 DVS MW-1	001
2	192413 JUN 12	"	"			"	19:24		2				✓					✓	✓		DVS MW-4	002
3	193113 JUN 12	"	"			"	19:31		2				✓					✓	✓		DVS MW-7	003
4	193913 JUN 12	"	"			"	19:39		2				✓					✓	✓		DVS MW-8	004
5	103314 JUN 12	"	"			6-14	10:33		2				✓					✓	✓		ICE-8	005
6	104014 JUN 12	"	"			"	10:40		2				✓					✓	✓		ICE-1	006
7	104814 JUN 12	"	"			"	10:48		2				✓					✓	✓		ICE-SVE	007
8	105814 JUN 12	"	"			"	10:58		2				✓					✓	✓		ICE-7	008
9	110414 JUN 12	"	"			"	11:04		2				✓					✓	✓		ICE-4	009
10	111514 JUN 12	"	"			"	11:15		2				✓					✓	✓		ICE-5	010
11	2DG9H TB																					011
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M. HARVEY / MILE HIGH	6-14	8:30a	FED-EX	6-14-12					
				Bennett Chino	6-16-12	845	11.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. HARVEY

SIGNATURE of SAMPLER: M. Harvey

DATE Signed (MM/DD/YY): 6-14-12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

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Client Name: Mile High Services Project # 60123513

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 800120957033 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 6/25
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 11.3

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 6-16-12 BA

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1. Out of temp, not enough ice.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 021411-3		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: ____

Client Notification/ Resolution: Copy COC to Client? (Y) / N Field Data Required? Y / N

Person Contacted: Mark Harvey Date/Time: 6/18/12

Comments/ Resolution: Emailed about cooler out of temp AMW 6/18/12
Per Mark Harvey analyze samples AMW 6/18/12
Emailed about TB - analyze AMW 6/18/12

Project Manager Review: AMW Date: 6/18/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp. incorrect containers)

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October 10, 2012

Mr. Mark Harvey
Mile High Environmental
811 B West Apache
Farmington, NM 87401

RE: Project: NM GW ICE & JIC
Pace Project No.: 60130478

Dear Mr. Harvey:
Enclosed are the analytical results for sample(s) received by the laboratory on October 04, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Brownfield

Andy Brownfield for
Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60130478001	121027SEP12	Water	09/27/12 12:10	10/04/12 08:20
60130478002	122127SEP12	Water	09/27/12 12:21	10/04/12 08:20
60130478003	125627SEP12	Water	09/27/12 12:56	10/04/12 08:20
60130478004	134427SEP12	Water	09/27/12 13:44	10/04/12 08:20
60130478005	135227SEP12	Water	09/27/12 13:52	10/04/12 08:20
60130478006	142227SEP12	Water	09/27/12 14:22	10/04/12 08:20
60130478007	142927SEP12	Water	09/27/12 14:29	10/04/12 08:20
60130478008	143927SEP12	Water	09/27/12 14:39	10/04/12 08:20
60130478009	145427SEP12	Water	09/27/12 14:54	10/04/12 08:20
60130478010	150727SEP12	Water	09/27/12 15:07	10/04/12 08:20
60130478011	152127SEP12	Water	09/27/12 15:21	10/04/12 08:20

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SAMPLE ANALYTE COUNT

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60130478001	121027SEP12	EPA 8260	SDR	9
60130478002	122127SEP12	EPA 8260	SDR	9
60130478003	125627SEP12	EPA 8260	SDR	9
60130478004	134427SEP12	EPA 8260	JTK	9
60130478005	135227SEP12	EPA 8260	JTK	9
60130478006	142227SEP12	EPA 8260	JTK	9
60130478007	142927SEP12	EPA 8260	JTK	9
60130478008	143927SEP12	EPA 8260	JTK	9
60130478009	145427SEP12	EPA 8260	JTK	9
60130478010	150727SEP12	EPA 8260	JTK	9
60130478011	152127SEP12	EPA 8260	JTK	9

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 121027SEP12 **Lab ID: 60130478001** Collected: 09/27/12 12:10 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:20	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 04:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		10/06/12 04:20	1868-53-7	
Toluene-d8 (S)	104	%	80-120	1		10/06/12 04:20	2037-26-5	
4-Bromofluorobenzene (S)	107	%	80-120	1		10/06/12 04:20	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120	1		10/06/12 04:20	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:20		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 122127SEP12 **Lab ID: 60130478002** Collected: 09/27/12 12:21 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:36	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:36	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 04:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	80-120	1		10/06/12 04:36	1868-53-7	
Toluene-d8 (S)	104	%	80-120	1		10/06/12 04:36	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		10/06/12 04:36	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120	1		10/06/12 04:36	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:36		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 125627SEP12 **Lab ID: 60130478003** Collected: 09/27/12 12:56 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:52	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 04:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		10/06/12 04:52	1868-53-7	
Toluene-d8 (S)	103	%	80-120	1		10/06/12 04:52	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120	1		10/06/12 04:52	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		10/06/12 04:52	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:52		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 134427SEP12 **Lab ID: 60130478004** Collected: 09/27/12 13:44 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 03:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 03:58	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 03:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 03:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	1		10/06/12 03:58	1868-53-7	
Toluene-d8 (S)	98	%	80-120	1		10/06/12 03:58	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1		10/06/12 03:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		10/06/12 03:58	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 03:58		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 135227SEP12 **Lab ID: 60130478005** Collected: 09/27/12 13:52 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:13	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 04:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	80-120	1		10/06/12 04:13	1868-53-7	
Toluene-d8 (S)	101	%	80-120	1		10/06/12 04:13	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		10/06/12 04:13	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		10/06/12 04:13	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:13		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 142227SEP12 **Lab ID: 60130478006** Collected: 09/27/12 14:22 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:29	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:29	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 04:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	80-120	1		10/06/12 04:29	1868-53-7	
Toluene-d8 (S)	104	%	80-120	1		10/06/12 04:29	2037-26-5	
4-Bromofluorobenzene (S)	94	%	80-120	1		10/06/12 04:29	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120	1		10/06/12 04:29	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:29		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 142927SEP12 **Lab ID: 60130478007** Collected: 09/27/12 14:29 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 04:44	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 04:44	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 04:44	108-88-3	
Xylene (Total)	**18.5**	ug/L	3.0	1		10/06/12 04:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	80-120	1		10/06/12 04:44	1868-53-7	
Toluene-d8 (S)	101	%	80-120	1		10/06/12 04:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	1		10/06/12 04:44	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	1		10/06/12 04:44	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 04:44		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 143927SEP12 **Lab ID: 60130478008** Collected: 09/27/12 14:39 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 05:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 05:00	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 05:00	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 05:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	1		10/06/12 05:00	1868-53-7	
Toluene-d8 (S)	96	%	80-120	1		10/06/12 05:00	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		10/06/12 05:00	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		10/06/12 05:00	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 05:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 145427SEP12 **Lab ID: 60130478009** Collected: 09/27/12 14:54 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**2070**	ug/L	20.0	20		10/06/12 05:15	71-43-2	
Ethylbenzene	**194**	ug/L	20.0	20		10/06/12 05:15	100-41-4	
Toluene	**4380**	ug/L	50.0	50		10/08/12 00:28	108-88-3	
Xylene (Total)	**2690**	ug/L	60.0	20		10/06/12 05:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	20		10/06/12 05:15	1868-53-7	
Toluene-d8 (S)	103	%	80-120	20		10/06/12 05:15	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	20		10/06/12 05:15	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120	20		10/06/12 05:15	17060-07-0	
Preservation pH	**1.0**		1.0	20		10/06/12 05:15		

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 150727SEP12 **Lab ID: 60130478010** Collected: 09/27/12 15:07 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**10300**	ug/L	100	100		10/06/12 05:31	71-43-2	
Ethylbenzene	**360**	ug/L	100	100		10/06/12 05:31	100-41-4	
Toluene	**3430**	ug/L	100	100		10/06/12 05:31	108-88-3	
Xylene (Total)	**2070**	ug/L	300	100		10/06/12 05:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	80-120	100		10/06/12 05:31	1868-53-7	HS
Toluene-d8 (S)	95	%	80-120	100		10/06/12 05:31	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	100		10/06/12 05:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	100		10/06/12 05:31	17060-07-0	
Preservation pH	**7.0**		1.0	100		10/06/12 05:31		pH

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ANALYTICAL RESULTS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Sample: 152127SEP12 **Lab ID: 60130478011** Collected: 09/27/12 15:21 Received: 10/04/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		10/06/12 05:46	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		10/06/12 05:46	100-41-4	
Toluene	ND	ug/L	1.0	1		10/06/12 05:46	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		10/06/12 05:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	80-120	1		10/06/12 05:46	1868-53-7	HS
Toluene-d8 (S)	109	%	80-120	1		10/06/12 05:46	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		10/06/12 05:46	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		10/06/12 05:46	17060-07-0	
Preservation pH	**1.0**		1.0	1		10/06/12 05:46		

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QUALITY CONTROL DATA

Project: NM GW ICE & JIC
Pace Project No.: 60130478

QC Batch: MSV/49022 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60130478001, 60130478002, 60130478003

METHOD BLANK: 1074070 Matrix: Water
Associated Lab Samples: 60130478001, 60130478002, 60130478003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/05/12 23:31	
Ethylbenzene	ug/L	ND	1.0	10/05/12 23:31	
Toluene	ug/L	ND	1.0	10/05/12 23:31	
Xylene (Total)	ug/L	ND	3.0	10/05/12 23:31	
1,2-Dichloroethane-d4 (S)	%	101	80-120	10/05/12 23:31	
4-Bromofluorobenzene (S)	%	105	80-120	10/05/12 23:31	
Dibromofluoromethane (S)	%	100	80-120	10/05/12 23:31	
Toluene-d8 (S)	%	104	80-120	10/05/12 23:31	

LABORATORY CONTROL SAMPLE: 1074071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.8	94	74-123	
Ethylbenzene	ug/L	20	19.6	98	76-123	
Toluene	ug/L	20	20.6	103	75-123	
Xylene (Total)	ug/L	60	57.9	97	76-123	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: NM GW ICE & JIC
Pace Project No.: 60130478

QC Batch: MSV/49035 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60130478004, 60130478005, 60130478006, 60130478007, 60130478008, 60130478009, 60130478010, 60130478011

METHOD BLANK: 1074431 Matrix: Water
Associated Lab Samples: 60130478004, 60130478005, 60130478006, 60130478007, 60130478008, 60130478009, 60130478010, 60130478011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	10/06/12 00:37	
Ethylbenzene	ug/L	ND	1.0	10/06/12 00:37	
Toluene	ug/L	ND	1.0	10/06/12 00:37	
Xylene (Total)	ug/L	ND	3.0	10/06/12 00:37	
1,2-Dichloroethane-d4 (S)	%	98	80-120	10/06/12 00:37	
4-Bromofluorobenzene (S)	%	98	80-120	10/06/12 00:37	
Dibromofluoromethane (S)	%	99	80-120	10/06/12 00:37	
Toluene-d8 (S)	%	101	80-120	10/06/12 00:37	

LABORATORY CONTROL SAMPLE: 1074432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.9	89	74-123	
Ethylbenzene	ug/L	20	18.4	92	76-123	
Toluene	ug/L	20	17.6	88	75-123	
Xylene (Total)	ug/L	60	52.1	87	76-123	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1074433 1074434

Parameter	Units	60130008014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	20	20	18.7	18.2	93	91	40-155	2	45	
Ethylbenzene	ug/L	ND	20	20	20.4	19.8	102	99	40-158	3	48	
Toluene	ug/L	ND	20	20	20.4	19.6	102	98	42-151	4	46	
Xylene (Total)	ug/L	ND	60	60	59.4	58.8	99	98	40-151	1	45	
1,2-Dichloroethane-d4 (S)	%						97	101	80-120			
4-Bromofluorobenzene (S)	%						101	99	80-120			
Dibromofluoromethane (S)	%						99	101	80-120			
Toluene-d8 (S)	%						106	98	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: NM GW ICE & JIC
Pace Project No.: 60130478

QC Batch: MSV/49051
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60130478009

METHOD BLANK: 1075346
Matrix: Water
Associated Lab Samples: 60130478009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	10/08/12 00:12	
1,2-Dichloroethane-d4 (S)	%	100	80-120	10/08/12 00:12	
4-Bromofluorobenzene (S)	%	99	80-120	10/08/12 00:12	
Dibromofluoromethane (S)	%	101	80-120	10/08/12 00:12	
Toluene-d8 (S)	%	110	80-120	10/08/12 00:12	

LABORATORY CONTROL SAMPLE: 1075347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	16.9	85	75-123	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			91	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALIFIERS

Project: NM GW ICE & JIC
Pace Project No.: 60130478

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/49022

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/49051

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GW ICE & JIC
Pace Project No.: 60130478

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60130478001	121027SEP12	EPA 8260	MSV/49022		
60130478002	122127SEP12	EPA 8260	MSV/49022		
60130478003	125627SEP12	EPA 8260	MSV/49022		
60130478004	134427SEP12	EPA 8260	MSV/49035		
60130478005	135227SEP12	EPA 8260	MSV/49035		
60130478006	142227SEP12	EPA 8260	MSV/49035		
60130478007	142927SEP12	EPA 8260	MSV/49035		
60130478008	143927SEP12	EPA 8260	MSV/49035		
60130478009	145427SEP12	EPA 8260	MSV/49035		
60130478009	145427SEP12	EPA 8260	MSV/49051		
60130478010	150727SEP12	EPA 8260	MSV/49035		
60130478011	152127SEP12	EPA 8260	MSV/49035		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1564128

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: MILE HIGH	Report To: M. HARVEY	Attention:
Address: 221 S MAIN AZTEC, NM	Copy To:	Company Name:
Email To:	Purchase Order No.:	Address:
Phone: 505-402-1958 Fax:	Project Name: NM GW	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: ICE + JIC	Pace Project Manager:
		Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	121027SEP12	WT	G			9-27	12:10		2				✓						X		ICE-8 001
2	122127SEP12	"	"			"	12:21		2				✓						X		ICE-1 002
3	125627SEP12	"	"			"	12:56		2				✓						X		ICE-7 003
4	134427SEP12	"	"			"	13:44		2				✓						X		ICE-4 004
5	135227SEP12	"	"			"	13:52		2				✓						X		ICE-5 005
6	142227SEP12	"	"			"	14:22		2				✓						X		JIC-1 006
7	142927SEP12	"	"			"	14:29		2				✓						X		JIC-2 007
8	143927SEP12	"	"			"	14:39		2				✓						X		JIC-8 008
9	145427SEP12	"	"			"	14:54		2				✓						X		JIC-3 009
10	150727SEP12	"	"			"	15:07		2				✓						X		JIC-6 010
11	152127SEP12	"	"			"	15:21		2				✓						X		JIC-9 011
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	M HARVEY	10-3-12	10:30	FED-EX	10-3	10:30				
				[signature]	10/4	0820	3.8	X	X	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. HARVEY

SIGNATURE of SAMPLER: [signature] *DATE Signed (MM/DD/YY): 10-3-12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Samp **Upon Receipt**

Client Name: Mile High Project # 60130478

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other
Tracking #: 8000 9284 4088 Pace Shipping Label Used? ☐ Yes ☑ No

Optional
Proj. Due Date:
Proj. Name: 10/11

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☑ Other ZIP C

Thermometer Used: (T-191)/ T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 3-8
Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: DV 10/4/12

Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☐ Yes ☑ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): ____		
Headspace in VOA vials (>6mm):	☑ Yes ☐ No ☐ N/A	16. 2 of 2 DG9H 1507, 1521
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State:

BA AMW

Client Notification/ Resolution: Copy COC to Client? (Y) / N Field Data Required? Y / N

Person Contacted: Mark Harvey Date/Time: 10/4/12

Comments/ Resolution: Email about vials w/ headspace AMW 10/4/12
Per mark Harvey analyze headspace samples AMW 10/4/12

Project Manager Review: AMW Date: 10/5/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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(913)599-5665

December 20, 2012

Mr. Mark Harvey
Mile High Environmental
811 B West Apache
Farmington, NM 87401

RE: Project: NMGW DVS & ICE
Pace Project No.: 60135430

Dear Mr. Harvey:
Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60135430001	**111513DEC12**	Water	12/13/12 11:15	12/14/12 08:30
60135430002	**112513DEC12**	Water	12/13/12 11:25	12/14/12 08:30
60135430003	**113213DEC12**	Water	12/13/12 11:32	12/14/12 08:30
60135430004	**114113DEC12**	Water	12/13/12 11:41	12/14/12 08:30
60135430005	**120913DEC12**	Water	12/13/12 12:09	12/14/12 08:30
60135430006	**112407DEC12**	Water	12/07/12 11:24	12/14/12 08:30
60135430007	**113607DEC12**	Water	12/07/12 11:36	12/14/12 08:30
60135430008	**114507DEC12**	Water	12/07/12 11:45	12/14/12 08:30
60135430009	**115507DEC12**	Water	12/07/12 11:55	12/14/12 08:30
60135430010	**120207DEC12**	Water	12/07/12 12:02	12/14/12 08:30
60135430011	**121007DEC12**	Water	12/07/12 12:10	12/14/12 08:30
60135430012	**122007DEC12**	Water	12/07/12 12:20	12/14/12 08:30
60135430013	**EDD**	Water		12/14/12 13:22

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SAMPLE ANALYTE COUNT

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60135430001	111513DEC12	EPA 8260	PRG	9
60135430002	112513DEC12	EPA 8260	PRG	9
60135430003	113213DEC12	EPA 8260	PRG	9
60135430004	114113DEC12	EPA 8260	PRG	9
60135430005	120913DEC12	EPA 8260	PRG	9
60135430006	112407DEC12	EPA 8260	PRG	9
60135430007	113607DEC12	EPA 8260	PRG	9
60135430008	114507DEC12	EPA 8260	JTS	9
60135430009	115507DEC12	EPA 8260	PRG	9
60135430010	120207DEC12	EPA 8260	PRG	9
60135430011	121007DEC12	EPA 8260	PRG	9
60135430012	122007DEC12	EPA 8260	PRG	9

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 111513DEC12 **Lab ID: 60135430001** Collected: 12/13/12 11:15 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 01:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 01:54	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 01:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 01:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%	80-120	1		12/18/12 01:54	1868-53-7	
Toluene-d8 (S)	109	%	80-120	1		12/18/12 01:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		12/18/12 01:54	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		12/18/12 01:54	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 01:54		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 112513DEC12 **Lab ID: 60135430002** Collected: 12/13/12 11:25 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 02:08	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 02:08	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 02:08	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 02:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	80-120	1		12/18/12 02:08	1868-53-7	
Toluene-d8 (S)	106	%	80-120	1		12/18/12 02:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		12/18/12 02:08	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		12/18/12 02:08	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 02:08		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 113213DEC12 **Lab ID: 60135430003** Collected: 12/13/12 11:32 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 02:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 02:23	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 02:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 02:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	1		12/18/12 02:23	1868-53-7	
Toluene-d8 (S)	105	%	80-120	1		12/18/12 02:23	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		12/18/12 02:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		12/18/12 02:23	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 02:23		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 114113DEC12 **Lab ID: 60135430004** Collected: 12/13/12 11:41 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 02:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 02:37	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 02:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 02:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%	80-120	1		12/18/12 02:37	1868-53-7	
Toluene-d8 (S)	105	%	80-120	1		12/18/12 02:37	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120	1		12/18/12 02:37	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120	1		12/18/12 02:37	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 02:37		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 120913DEC12 **Lab ID: 60135430005** Collected: 12/13/12 12:09 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**11800**	ug/L	100	100		12/18/12 02:52	71-43-2	
Ethylbenzene	**1270**	ug/L	100	100		12/18/12 02:52	100-41-4	
Toluene	**7620**	ug/L	100	100		12/18/12 02:52	108-88-3	
Xylene (Total)	**8910**	ug/L	300	100		12/18/12 02:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%	80-120	100		12/18/12 02:52	1868-53-7	HS
Toluene-d8 (S)	107	%	80-120	100		12/18/12 02:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	100		12/18/12 02:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	100		12/18/12 02:52	17060-07-0	
Preservation pH	**1.0**		1.0	100		12/18/12 02:52		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 112407DEC12 **Lab ID: 60135430006** Collected: 12/07/12 11:24 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 03:06	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 03:06	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 03:06	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 03:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%	80-120	1		12/18/12 03:06	1868-53-7	
Toluene-d8 (S)	107	%	80-120	1		12/18/12 03:06	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	1		12/18/12 03:06	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		12/18/12 03:06	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 03:06		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 113607DEC12 **Lab ID: 60135430007** Collected: 12/07/12 11:36 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 03:21	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 03:21	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 03:21	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 03:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%	80-120	1		12/18/12 03:21	1868-53-7	
Toluene-d8 (S)	110	%	80-120	1		12/18/12 03:21	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120	1		12/18/12 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120	1		12/18/12 03:21	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 03:21		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 114507DEC12 **Lab ID: 60135430008** Collected: 12/07/12 11:45 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	5		12/18/12 19:40	71-43-2	
Ethylbenzene	**38.5**	ug/L	5.0	5		12/18/12 19:40	100-41-4	
Toluene	ND	ug/L	5.0	5		12/18/12 19:40	108-88-3	
Xylene (Total)	**92.6**	ug/L	15.0	5		12/18/12 19:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	80-120	5		12/18/12 19:40	1868-53-7	D3
Toluene-d8 (S)	101	%	80-120	5		12/18/12 19:40	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	5		12/18/12 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120	5		12/18/12 19:40	17060-07-0	
Preservation pH	**1.0**		1.0	5		12/18/12 19:40		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 115507DEC12 **Lab ID: 60135430009** Collected: 12/07/12 11:55 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 03:50	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 03:50	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 03:50	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 03:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	80-120	1		12/18/12 03:50	1868-53-7	
Toluene-d8 (S)	106	%	80-120	1		12/18/12 03:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		12/18/12 03:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		12/18/12 03:50	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 03:50		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 120207DEC12 **Lab ID: 60135430010** Collected: 12/07/12 12:02 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 04:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 04:05	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 04:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 04:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	80-120	1		12/18/12 04:05	1868-53-7	
Toluene-d8 (S)	108	%	80-120	1		12/18/12 04:05	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	1		12/18/12 04:05	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		12/18/12 04:05	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 04:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 121007DEC12 **Lab ID: 60135430011** Collected: 12/07/12 12:10 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 04:19	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 04:19	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 04:19	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 04:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111	%	80-120	1		12/18/12 04:19	1868-53-7	
Toluene-d8 (S)	108	%	80-120	1		12/18/12 04:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120	1		12/18/12 04:19	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		12/18/12 04:19	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 04:19		

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ANALYTICAL RESULTS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Sample: 122007DEC12 **Lab ID: 60135430012** Collected: 12/07/12 12:20 Received: 12/14/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/18/12 04:34	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/18/12 04:34	100-41-4	
Toluene	ND	ug/L	1.0	1		12/18/12 04:34	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/18/12 04:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%	80-120	1		12/18/12 04:34	1868-53-7	
Toluene-d8 (S)	109	%	80-120	1		12/18/12 04:34	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		12/18/12 04:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		12/18/12 04:34	17060-07-0	
Preservation pH	**1.0**		1.0	1		12/18/12 04:34		

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QUALITY CONTROL DATA

Project: NMGW DVS & ICE
Pace Project No.: 60135430

QC Batch: MSV/50853 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60135430001, 60135430002, 60135430003, 60135430004, 60135430005, 60135430006, 60135430007, 60135430009, 60135430010, 60135430011, 60135430012

METHOD BLANK: 1116016 Matrix: Water
Associated Lab Samples: 60135430001, 60135430002, 60135430003, 60135430004, 60135430005, 60135430006, 60135430007, 60135430009, 60135430010, 60135430011, 60135430012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/18/12 01:39	
Ethylbenzene	ug/L	ND	1.0	12/18/12 01:39	
Toluene	ug/L	ND	1.0	12/18/12 01:39	
Xylene (Total)	ug/L	ND	3.0	12/18/12 01:39	
1,2-Dichloroethane-d4 (S)	%	105	80-120	12/18/12 01:39	
4-Bromofluorobenzene (S)	%	100	80-120	12/18/12 01:39	
Dibromofluoromethane (S)	%	102	80-120	12/18/12 01:39	
Toluene-d8 (S)	%	111	80-120	12/18/12 01:39	

LABORATORY CONTROL SAMPLE: 1116017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.2	101	74-123	
Ethylbenzene	ug/L	20	22.6	113	76-123	
Toluene	ug/L	20	22.1	110	75-123	
Xylene (Total)	ug/L	60	67.6	113	76-123	
1,2-Dichloroethane-d4 (S)	%			108	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Dibromofluoromethane (S)	%			107	80-120	
Toluene-d8 (S)	%			107	80-120	

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QUALITY CONTROL DATA

Project: NMGW DVS & ICE
Pace Project No.: 60135430

QC Batch: MSV/50879
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 60135430008

METHOD BLANK: 1116579
Matrix: Water
Associated Lab Samples: 60135430008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/18/12 17:43	
Ethylbenzene	ug/L	ND	1.0	12/18/12 17:43	
Toluene	ug/L	ND	1.0	12/18/12 17:43	
Xylene (Total)	ug/L	ND	3.0	12/18/12 17:43	
1,2-Dichloroethane-d4 (S)	%	105	80-120	12/18/12 17:43	
4-Bromofluorobenzene (S)	%	104	80-120	12/18/12 17:43	
Dibromofluoromethane (S)	%	100	80-120	12/18/12 17:43	
Toluene-d8 (S)	%	99	80-120	12/18/12 17:43	

LABORATORY CONTROL SAMPLE: 1116580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.1	95	74-123	
Ethylbenzene	ug/L	20	20.3	101	76-123	
Toluene	ug/L	20	20.9	105	75-123	
Xylene (Total)	ug/L	60	60.4	101	76-123	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			105	80-120	
Dibromofluoromethane (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: NMGW DVS & ICE
Pace Project No.: 60135430

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/50853

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/50879

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NMGW DVS & ICE
Pace Project No.: 60135430

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60135430001	**111513DEC12**	EPA 8260	MSV/50853		
60135430002	**112513DEC12**	EPA 8260	MSV/50853		
60135430003	**113213DEC12**	EPA 8260	MSV/50853		
60135430004	**114113DEC12**	EPA 8260	MSV/50853		
60135430005	**120913DEC12**	EPA 8260	MSV/50853		
60135430006	**112407DEC12**	EPA 8260	MSV/50853		
60135430007	**113607DEC12**	EPA 8260	MSV/50853		
60135430008	**114507DEC12**	EPA 8260	MSV/50879		
60135430009	**115507DEC12**	EPA 8260	MSV/50853		
60135430010	**120207DEC12**	EPA 8260	MSV/50853		
60135430011	**121007DEC12**	EPA 8260	MSV/50853		
60135430012	**122007DEC12**	EPA 8260	MSV/50853		

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[redacted]

WO#: 60135430

60135430

Optional
Proj Due Date:
Proj Name:

Client Name: Mile High

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8022 4483 7980 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☒ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: (T-191) / T-194 **Type of Ice:** (Wet) Blue None (circle one) ☐ Samples received on ice, cooling process has begun

Cooler Temperature: 1.1

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JP 12/14/12 1410

Chain of Custody present:	☒Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☒Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☒Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC:	☒Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: water				13.
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed: NA / Lot # of added preservative
Trip Blank present:	☐Yes	☒No	☐N/A	120913 Dec 12 2 of 2 vials w/ headspace
Pace Trip Blank lot # (if purchased): NA				15.
Headspace in VOA vials (>6mm):	☒Yes	☐No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? (Y) / N Field Data Required? Y / N

Person Contacted: Mark Harvey Date/Time: 12/14/12

Comments/ Resolution: Email - headspace in 120913Dec12 - analyze? TMW 12/14/12
Per Mark Harvey analyze sample TMW 12/14/12

Project Manager Review: TMW Date 12/17/12

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1564131

Section A Required Client Information:

Company: MILE HIGH
Address: 221 S. MAIN AVE
AZTEC, NM 87410
Email To:
Phone: 505-402-1958 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: MARK HARVEY
Copy To:
Purchase Order No.:
Project Name: NMGW
Project Number: DVS & ICE

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

NPDES [X] GROUND WATER [ ] DRINKING WATER
[ ] UST [ ] RCRA [ ] OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	BTEX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	111513DEC12	WT	G			11:15	12-13		2				✓					✓	✓		60135430 DVS-1 2(40ml) 01
2	112513DEC12	"	"			11:25	"		2				✓					✓	✓		DVS-4 02
3	113213DEC12	"	"			11:32	"		2				✓					✓	✓		DVS-7 03
4	114113DEC12	"	"			11:41	"		2				✓					✓	✓		DVS-6 04
5	120913DEC12	"	"			12:09	"		2				✓					✓	✓		DVS-5 05
6	112407DEC12	"	"			11:24	12-07		2				✓					✓	✓		ICE-8 06
7	113607DEC12	"	"			11:36	"		2				✓					✓	✓		ICE-1 07
8	114507DEC12	"	"			11:45	"		2				✓					✓	✓		SVE-4 08
9	115507DEC12	"	"			11:55	"		2				✓					✓	✓		ICE-7 09
10	120207DEC12	"	"			12:02	"		2				✓					✓	✓		ICE 3 10
11	121007DEC12	"	"			12:10	"		2				✓					✓	✓		ICE-4 11
12	122007DEC12	✓	✓			12:20	"		2				✓					✓	✓		ICE-5 12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M HARVEY/MILE HIGH	12-13-12	4:00p	FED-X						
				Pace	12/14/12	830	1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: M. HARVEY

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-13-12

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 11, 2013

Julie Linn
LTE
2243 Main Ave Suite 3
Durango, CO 81301
TEL: (970) 385-1096
FAX

RE: Ice Canyon Drip OrderNo.: 1303300

Dear Julie Linn:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/7/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1303300**
Date Reported: **3/11/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: MW-1
Project: Ice Canyon Drip
Collection Date: 3/4/2013 8:27:00 AM
Lab ID: 1303300-001
Matrix: AQUEOUS
Received Date: 3/7/2013 9:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0	P	µg/L	1	3/7/2013 3:24:32 PM
Toluene	ND	1.0	P	µg/L	1	3/7/2013 3:24:32 PM
Ethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:24:32 PM
Xylenes, Total	ND	2.0	P	µg/L	1	3/7/2013 3:24:32 PM
1,2,4-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:24:32 PM
1,3,5-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:24:32 PM
Surr: 4-Bromofluorobenzene	90.0	69.4-129	P	%REC	1	3/7/2013 3:24:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: MW-3
Project: Ice Canyon Drip
Collection Date: 3/4/2013 9:35:00 AM
Lab ID: 1303300-002
Matrix: AQUEOUS
Received Date: 3/7/2013 9:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0	P	µg/L	1	3/7/2013 3:54:38 PM
Toluene	ND	1.0	P	µg/L	1	3/7/2013 3:54:38 PM
Ethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:54:38 PM
Xylenes, Total	ND	2.0	P	µg/L	1	3/7/2013 3:54:38 PM
1,2,4-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:54:38 PM
1,3,5-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 3:54:38 PM
Surr: 4-Bromofluorobenzene	93.4	69.4-129	P	%REC	1	3/7/2013 3:54:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Ice Canyon Drip
Lab ID: 1303300-003
Matrix: AQUEOUS
Client Sample ID: MW-4
Collection Date: 3/4/2013 10:10:00 AM
Received Date: 3/7/2013 9:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0	P	µg/L	1	3/7/2013 4:24:46 PM
Toluene	ND	1.0	P	µg/L	1	3/7/2013 4:24:46 PM
Ethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:24:46 PM
Xylenes, Total	ND	2.0	P	µg/L	1	3/7/2013 4:24:46 PM
1,2,4-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:24:46 PM
1,3,5-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:24:46 PM
Surr: 4-Bromofluorobenzene	87.2	69.4-129	P	%REC	1	3/7/2013 4:24:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: MW-7
Project: Ice Canyon Drip
Collection Date: 3/4/2013 11:40:00 AM
Lab ID: 1303300-004
Matrix: AQUEOUS
Received Date: 3/7/2013 9:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0	P	µg/L	1	3/7/2013 4:54:46 PM
Toluene	ND	1.0	P	µg/L	1	3/7/2013 4:54:46 PM
Ethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:54:46 PM
Xylenes, Total	ND	2.0	P	µg/L	1	3/7/2013 4:54:46 PM
1,2,4-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:54:46 PM
1,3,5-Trimethylbenzene	ND	1.0	P	µg/L	1	3/7/2013 4:54:46 PM
Surr: 4-Bromofluorobenzene	87.6	69.4-129	P	%REC	1	3/7/2013 4:54:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Client Sample ID: MW-8
Project: Ice Canyon Drip
Collection Date: 3/4/2013 11:35:00 AM
Lab ID: 1303300-005
Matrix: AQUEOUS
Received Date: 3/7/2013 9:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.0	P	µg/L	2	3/7/2013 5:24:54 PM
Toluene	ND	2.0	P	µg/L	2	3/7/2013 5:24:54 PM
Ethylbenzene	ND	2.0	P	µg/L	2	3/7/2013 5:24:54 PM
Xylenes, Total	ND	4.0	P	µg/L	2	3/7/2013 5:24:54 PM
1,2,4-Trimethylbenzene	ND	2.0	P	µg/L	2	3/7/2013 5:24:54 PM
1,3,5-Trimethylbenzene	ND	2.0	P	µg/L	2	3/7/2013 5:24:54 PM
Surr: 4-Bromofluorobenzene	89.4	69.4-129	P	%REC	2	3/7/2013 5:24:54 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1303300**

11-Mar-13

Client: LTE

Project: Ice Canyon Drip

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R9057**	RunNo: **9057**
Prep Date:	Analysis Date: **3/7/2013**	SeqNo: **258308** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	19		20.00		96.6	69.4	129			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R9057**	RunNo: **9057**
Prep Date:	Analysis Date: **3/7/2013**	SeqNo: **258309** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.2	80	120			
Toluene	19	1.0	20.00	0	95.6	80	120			
Ethylbenzene	19	1.0	20.00	0	96.6	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	94.3	80	120			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	69.4	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: LTE

Work Order Number: 1303300

Received by/date: HG 03/07/13

Logged By: Lindsay Mangin 3/7/2013 9:56:00 AM

Completed By: Lindsay Mangin 3/7/2013 12:46:36 PM

Reviewed By: TO 03/07/2013

Chain of Custody

1. Were seals intact?	Yes	No	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No	Not Present
3. How was the sample delivered?	~~Client~~ Courier 03/07/13		

Log In

4. Coolers are present? (see 19. for cooler specific information)	Yes ✔	No	NA
5. Was an attempt made to cool the samples?	Yes ✔	No	NA
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No	NA
7. Sample(s) in proper container(s)?	Yes ✔	No	
8. Sufficient sample volume for indicated test(s)?	Yes ✔	No	
9. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No	
10. Was preservative added to bottles?	Yes	No ✔	NA
11. VOA vials have zero headspace?	Yes ✔	No	No VOA Vials
12. Were any sample containers received broken?	Yes	No ✔	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	(<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes ✔	No	Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✔	No	Checked by:

Special Handling (if applicable)

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

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

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: LT Environmental

Mailing Address: 2243 Main Ave S3
Durango CO 81301

Phone #: 970-385-1096

email or Fax#: jlinn@ltenv.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: ICE CANYON DRIP

Project #:

Project Manager: Julie Linn

Sampler: Brooke Herb

On Ice: ☐ Yes ☐ No

Sample Temperature: 3

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1303300	Analysis Request: BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
4/13	8:27	GW	MW-1	VOA/3	cool	-001	X														
4/13	9:35	GW	MW-3	VOA/3	cool	-002	X														
4/13	10:10	GW	MW-4	VOA/3	cool	-003	X														
4/13	11:40	GW	MW-7	VOA/3	cool	-004	X														
4/13	11:35	GW	MW-8	VOA/3	cool	-005	X														

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/13	1705		Christa Waeler	3/14/13	1705
6/13	1757	Christa Waeler		03/14/13	0957

Remarks:

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

APPENDIX B
MARCH 2013 FIELD NOTES

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	8:27	Project #	034013001
Sample ID	MW-1	Sampler	Brooke Herb
Analyses	BTEX 8021		
Matrix	Groundwater	Laboratory	Hall Environmental
Turn Around Time	Standard	Shipping Method	Hand delivery
Depth to Water	46.75	TD of Well	48.21
Time	8:00	Depth to Product	NA
Vol. of H2O to purge	1.46* 0.16 = 0.23 * 3 = 0.70		
	*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*		
Method of Purging	PVC Bailer		
Method of Sampling	PVC Bailer		

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments
8:17	0.15	0.15	6.59	14.4	2.26	Clear with black flecks, roots, no odor, no sheen
						Bailed Dry

Comments:

Describe Deviations from SOP: Well bailed dry immediately. Was able to collect enough groundwater to fill 3 VOAs

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	NA	Project #	034013001
Sample ID	MW-2	Sampler	Brooke Herb
Analyses	NA		
Matrix	NA	Laboratory	NA
Turn Around Time	NA	Shipping Method	NA
Depth to Water	NA	TD of Well	NA
Time	8:45	Depth to Product	NA

Vol. of H2O to purge

*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging NA

Method of Sampling NA

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments

Comments: Obstruction in well at 30.52 feet. Was unable to get probe past it. Water was not encountered.

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	9:35	Project #	034013001
Sample ID	MW-3	Sampler	Brooke Herb
Analyses	BTEX 8021		
Matrix	Groundwater	Laboratory	Hall Environmental
Turn Around Time	Standard	Shipping Method	Hand delivery
Depth to Water	40.66	TD of Well	46.12
Time	9:00	Depth to Product	NA
Vol. of H2O to purge	5.46* 0.16 = 0.87 * 3 = 2.62		
	*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*		
Method of Purging	PVC Bailer		
Method of Sampling	PVC Bailer		

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments
9:10	0.25	0.25	6.83	14.2	1,571	Brown, silty
	0.25	0.50	7.02	14.5	1,538	Darker brown, more silt
	0.25	0.75	7.07	14.4	1,563	More silt
	0.25	1.00	7.16	14.2	1,548	No change
	1.00	2.00	7.14	14.5	1,554	No change
	0.25	2.25	7.21	14.6	1,530	No change
	0.25	2.50	7.23	14.4	1,529	No change
	0.25	2.75	7.23	14.4	1,534	No change
9:33	0.25	3.00	7.23	14.4	1,532	No change

Comments:

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	10:10	Project #	034013001
Sample ID	MW-4	Sampler	Brooke Herb
Analyses	BTEX 8021		
Matrix	Groundwater	Laboratory	Hall Environmental
Turn Around Time	Standard	Shipping Method	Hand delivery
Depth to Water	40.45	TD of Well	46.29
Time	9:45	Depth to Product	NA
Vol. of H2O to purge	5.84 * 0.16 = 0.93 * 3 = 2.80		
	*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*		
Method of Purging	PVC Bailer		
Method of Sampling	PVC Bailer		

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments
9:50	0.25	0.25	7.00	15.5	1,522	Clear with a light brown tint
	0.25	0.50	6.89	15.4	1,549	No change
	0.25	0.75	6.93	15.7	1,518	more silt
	0.25	1.00	6.98	15.5	1,534	No change
	1.00	2.00	7.16	15.0	1,499	More silt, dark grayish brown
	0.25	2.25	7.20	14.9	1,530	Very silty
	0.25	2.50	7.19	15.0	1,531	No change
	0.25	2.75	7.27	15.0	1,542	No change
	0.25	3.00	7.25	15.0	1,532	No change
10:10	0.25	3.25	7.25	15.1	1538	No change

Comments:

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	NA	Project #	034013001
Sample ID	MW-5	Sampler	Brooke Herb
Analyses	NA		
Matrix	NA	Laboratory	NA
Turn Around Time	NA	Shipping Method	NA
Depth to Water	36.83	TD of Well	NM
Time	11:00	Depth to Product	36.82

Vol. of H2O to purge

*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging NA

Method of Sampling NA

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments

Comments: No sample was collected due to the presence of product.

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	NA	Project #	034013001
Sample ID	MW-6	Sampler	Brooke Herb
Analyses	NA		
Matrix	NA	Laboratory	NA
Turn Around Time	NA	Shipping Method	NA
Depth to Water	DRY	TD of Well	37.52
Time	10:50	Depth to Product	NA

Vol. of H2O to purge

*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging NA

Method of Sampling NA

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments

Comments: Well dry at 37.52 feet bgs.
No surface completion; PVC locked.

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	11:40	Project #	034013001
Sample ID	MW-7	Sampler	Brooke Herb
Analyses	BTEX 8021		
Matrix	Groundwater	Laboratory	Hall Environmental
Turn Around Time	Standard	Shipping Method	Hand delivery
Depth to Water	38.28	TD of Well	43.78
Time	9:45	Depth to Product	NA
Vol. of H2O to purge	5.5 * 0.16 = 0.88 * 3 = 2.64		
	*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*		
Method of Purging	PVC Bailer		
Method of Sampling	PVC Bailer		

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments
10:30	0.25	0.25	7.25	13.7	1,482	clear, no silt, odor
	0.25	0.50	7.31	13.9	1,534	no change
	0.25	0.75	7.30	13.7	1,525	minor silt
	0.25	1.00	7.37	13.6	1,512	no change
10:40						Bailed Dry

Comments: Returned to collect sample at 11:40

Describe Deviations from SOP: Well bailed dry before 3 casing volumes were purged.

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	11:35	Project #	034013001
Sample ID	MW-8	Sampler	Brooke Herb
Analyses	BTEX 8021		
Matrix	Groundwater	Laboratory	Hall Environmental
Turn Around Time	Standard	Shipping Method	Hand delivery
Depth to Water	34.69	TD of Well	42.05
Time	11:00	Depth to Product	NA
Vol. of H2O to purge	7.36 * 0.16 = 1.17 * 3 = 3.53		
	*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*		
Method of Purging	PVC Bailer		
Method of Sampling	PVC Bailer		

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments
11:15	0.25	0.25	7.30	15.0	1,555	very silty, dark grayish brown
	0.25	0.50	7.28	15.2	1,566	no change
	0.25	0.75	7.27	15.2	1,561	no change
	0.25	1.00	7.31	15.1	1,580	no change
	1.00	2.00	7.32	15.1	1,585	no change
	0.50	2.50	7.33	15.1	1,597	no change
	0.25	2.75	7.34	15.1	1,583	no change
	0.25	3.00	7.34	15.1	1,580	no change
	0.25	3.25	7.35	15.0	1,578	no change
11:35	0.25	3.50	7.35	15.0	1,581	no change

Comments:

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013

Water Sample Collection Form

Sample Location	Ice Canyon Drip	Client	Williams Field Services, LLC
Sample Date	3/4/2013	Project Name	Historical Groundwater
Sample Time	NA	Project #	034013001
Sample ID	SVE-4"	Sampler	Brooke Herb
Analyses	NA		
Matrix	NA	Laboratory	NA
Turn Around Time	NA	Shipping Method	NA
Depth to Water	42.73	TD of Well	NM
Time	8:35	Depth to Product	42.72

Vol. of H2O to purge

*(height of water column * 0.1631 for 2" well or 0.6524 for 4" well) * 3 well vols*

Method of Purging NA

Method of Sampling NA

Time	Vol. Removed (gallons)	Total Vol H2O removed (gallons)	pH (standard units)	Temp. (°C)	Conductivity (µs)	Comments

Comments: No sample was collected due to the presence of product.
Product recovery sock in well; returned to well after DTW and DTP data were gathered.

Describe Deviations from SOP:

Signature: Brooke Herb **Date:** 3/4/2013