# RECR - 5

# **Enersource Refinery**

Investigation Report

6/29/12



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June 29, 2012

Mr. Jim Griswold, Hydrologist Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

RE:

2012 Site Investigation Report, Former Enersource Facility

Monument, Lea County, New Mexico

Dear Mr. Griswold,

INTERA has prepared the enclosed investigation report for the above-referenced project. We are enclosing two hardcopies and two electronic copies. Please do not hesitate to me at (505) 246-1600 if you have any questions or require further information and thank you for the work.

Sincerely,

**INTERA Incorporated** 

Joe A. Galemore

Senior Project Managert

Enclosure

FILE: NMGSD.M002.ENER

# 2012 SITE INVESTIGATION REPORT Former Enersource Facility Monument, Lea County, New Mexico





New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

# Prepared by:



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June 29, 2012



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# **ACRONYMS AND ABBREVIATIONS**

amsl above mean sea level
AST aboveground storage tank

bgs below ground surface

BTEX benzene, toluene, ethyl benzene, and total xylenes

COC contaminant of concern

DO dissolved oxygen
DPT direct-push technology
DRO diesel range organics

EDB 1,2-dibromoethane EDC 1,2-dichloroethane

EPA U.S. Environmental Protection Agency

ft feet or foot

GIS geographic information system

GRO gasoline range organics

HEAL Hall Environmental Analysis Laboratory

HSA hollow-stem auger

INTERA INTERA Incorporated

LNAPL light non-aqueous phase liquids

μg/L micrograms per liter

μS/cm microsiemens per centimeter
mg/kg milligrams per kilogram
mg/L milligrams per liter
MRO motor oil range organics

MW monitoring well

NMWQCC New Mexico Water Quality Control Commission

OCD Oil Conservation Division (New Mexico Energy, Minerals, and Natural

Resources Department)

OD outer diameter

ORP oxidation reduction potential OSE Office of the State Engineer



PA Price Agreement

PAH polynuclear aromatic hydrocarbon

PID photoionization detector

PO purchase order ppm parts per million PVC polyvinyl chloride

RA removal action

RI remedial investigation

RL reporting limit

ROC Rice Operating Company

Site former Enersource facility
SLO New Mexico State Land Office
SVOC semi-volatile organic compound

SWD salt water disposal

TD total depth

TDS total dissolved solids TOC top of PVC casing

TPH total petroleum hydrocarbons

USGS U.S. Geological Survey

VOC volatile organic compound



# 1.0 INTRODUCTION

INTERA Incorporated (INTERA) has completed an additional site investigation at the former Enersource Facility (Site) and adjacent properties for the New Mexico Energy, Minerals, and Natural Resources Department, Oil Conservation Division (OCD). The services were conducted under General Services Department Price Agreement number # 10-805-00-07208 (PA). The term of the PA is August 16, 2011, through August 15, 2012. Authorization to conduct this work was provided by OCD purchase order (PO) number 52100-0000034718 dated March 9, 2012.

The Site, located in Monument, Lea County, New Mexico, covers approximately 9.65 acres in an area utilized for oil and gas exploration/production and cattle ranching. Historical operations at the Site include use as an oil refinery and later, under Enersource operations, as a crude oil reclamation facility. Results of several remedial investigations completed at the Site since 2006 indicate contamination related to hydrocarbon storage and processing have impacted soil and groundwater at the Site as well as adjacent properties. The purpose of the 2012 investigation was to further delineate the southern, eastern, and western limits of dissolved-phased petroleum (specifically benzene) and light non-aqueous phase liquid (LNAPL) contamination observed at the Site and determine the impact to adjacent properties.

This report summarizes the 2012 field investigation activities and presents associated analytical results and recommendations for additional Site investigation and remediation. For reference, a description of the physical setting of the 2012 area of investigation (i.e., the Site and adjacent properties) as well as a brief summary of the operational and investigative history of the Site is provided in the following subsections.

# 1.1 Investigation Setting

The area of investigation, located in the northwest quarter of Section 1, Township 20 South, Range 36 East, in Lea County, New Mexico, lies within the High Plains section of the Great Plains physiographic province. The High Plains is predominantly used for rangeland and agriculture and land in the vicinity of the Site is also used for oil and gas production. Figure 1 illustrates the location of the Site on the Monument North and Monument South 7.5 minute Quadrangles, U.S. Geological Survey Topographic Maps (USGS, 1985a and 1985b).

The Site is at an elevation of approximately 3,580 feet (ft) above mean sea level (amsl). The ground surface slopes down from northwest to southeast at a gradient of approximately 0.003 ft/ft (16 ft/mile). Monument Draw, a northwest to southeast flowing intermittent stream, is located about  $2\frac{1}{2}$  miles south of the Site. Current conditions (as of 2011) of the area of investigation are presented on Figure 2a.



Soils in the area of investigation have a high to medium-high permeability and are well drained. Annual precipitation rates average approximately 15 inches and mean annual temperature is about 60 degrees Fahrenheit. The majority of the precipitation occurs in the summer monsoon months. Lake evaporation rates range from 60 to 70 inches per year (Leedshill-Herkenhoff, Inc., et al. 2000).

Surface geology of the area of investigation consists of a thin layer of recently deposited windblown sands and silts (Leedshill-Herkenhoff, Inc., et al. 2000). Below this layer resides the Ogallala Formation, which consists of sand, silt, clay, gravel, and caliche and is up to 350 ft thick in some areas. The regional aquifer, the Ogallala Aquifer, occurs in this formation. A general description of the Ogallala Formation is provided below (Leedshill-Herkenhoff, Inc., et al. 2000):

Sand, fine- to coarse-grained quartz, silty in part, cemented locally by calcite and silica, locally crossbedded, various shades of gray and red. Minor silt and clay with caliche nodules, massive, white, gray, olive green, maroon. Gravel, not everywhere present, composed of pebbles and cobbles of quartz, quartzite, minor chert, igneous rock, metamorphic rock, limestone, and abraded Gryphaea in intraformational channel deposits and in basal conglomerate. Caliche, sandy, pisolitic, forms caprock, may include some caliche of Pleistocene age. Where stippled pattern shown, overlain sporadically by 14 to 30 inches of brownish gray to brown to reddish brown, calcareous sand and silt of pre-Illinoian age....

The area of investigation is located within the Lea County Underground Water Basin, which obtains water from the Ogallala Aquifer. As of 1998, depth to water at the area of investigation was estimated to be 40 ft below ground surface (bgs) and the groundwater flow direction was generally to the southeast (Leedshill-Herkenhoff, Inc., et al. 2000).

A search of the Office of the State Engineer (OSE) WATERS database (OSE, 2012) and the OSE geographic information system (GIS) well location shapefile (OSE/ISC, 2011) revealed eight permitted water wells within 1 mile of the Site and two within Section 1 (Figure 1). Some discrepancies between the WATERS database and GIS shapefile were revealed pertaining to primary use of these wells and are noted below. The two closest wells included in the database are a domestic supply well (listed as a sanitary well in the WATERS database) located approximately 2,000 ft north of the Site and an exploratory well owned by Climax Chemical located approximately 2,000 ft northwest of the Site; no information concerning depth to water was provided in the WATERS database. The next two closest wells listed in the database include a domestic supply well (listed as a domestic and livestock watering well in the WATERS database) located about 3,000 ft east of the Site and a prospecting or development of natural



resources well located about 3,000 ft southeast of the Site. The WATERS database lists the depth to water in the domestic water supply well as 40 ft bgs (OSE, 2012); no information concerning depth to water at the prospecting well was provided. Other water wells may be located in the area that are either not permitted by the OSE or not sufficiently described in the database to allow for accurate mapping.

# 1.1.1 Adjacent Property Land Use

The Site is surrounded by land and facilities utilized by multiple agents and landowners primarily for oil and gas operations and, less so, cattle ranching. The Versado Gas Processing Plant (OCD remediation permit # 1R-281) is located immediately adjacent to the Site's northern property boundary and the El Paso Natural Gas operates a facility within 300 ft of the eastern property boundary (Figure 1 and Figure 2a). Open land immediately to the south, east, and west of the Site is owned and operated by the New Mexico State Land Office (SLO), which actively leases the land for cattle ranching and oil and gas production. Numerous pipelines and oil and gas wells are located on this property. In addition, Rice Operating Company (ROC) maintains and operates a Salt Water Disposal (SWD) system related to oil and gas production that consists of pipelines, wells, and facilities throughout the area (RECS, 2011). As a result, numerous oil/gas production wells, storage tanks, and pipelines associated with these operations are in the vicinity of the area of investigation.

Remediation of LNAPL was reportedly occurring at the Versado Plant (Wrangham, personal communication, 2006); however, no files associated with remediation permit # 1R-281 were found in the OCD online document review service was accessed. Remediation of chloride is also ongoing in the immediate area (RECS, 2011). Two wells associated with corrective actions for chloride contamination (a production/remediation well [Rice Well MW-1] and a monitoring well [Rice Well MW-2]) are located near the former SWD end-of-line pipeline junction box, EME C-1 EOL. Although not catalogued in the OSE database, the wells were identified during field reconnaissance and are located approximately 200 ft to the south of the Site (Figure 1 and Figure 2a). In addition, the Climax Chemical Company, which is a U.S. Environmental Protection Agency (EPA) Comprehensive Environmental Response, Compensation, and Liability Information System site, reportedly contains chloride concentrations greater than 10,000 milligrams per liter (mg/L) in groundwater (RECS, 2011). The Climax Chemical Company Site is located approximately 1-mile to the northwest of the area of investigation.

## 1.2 Site Historical Operations

All information presented in this section is based on a review of historical aerial photographs and property ownership records (obtained from the Lea County Courthouse) and interviews with local residents and OCD personnel (INTERA, 2009). A more comprehensive description of the



project history is provided in INTERA's *Phase I and II Remediation Report* (INTERA, 2007). Copies of historical aerial photographs are provided in Appendix A.

Based on historical aerial photographs, significant development at the Site occurred after 1949 (INTERA, 2009). The aerial photograph circa 1949 depicts the Site as largely undeveloped with only a single large tank straddling the Site boundary. Development (bermed ponds [?]) is noted approximately 150 ft south of the south Site boundary (Appendix A). The 1966 and 1978 photographs depict numerous (> 25) aboveground storage tanks (ASTs) located within or slightly outside the Site boundary. The Site tanks are arranged into two groups, an eastern and a western cluster. In general, the tanks located in the western cluster are larger than the tanks in the eastern cluster. This photograph also shows more, but similar, development south of the Site relative to that observed in the 1949 (Appendix A).

The two clusters of tanks are separated by a central area that contains buildings and, based on the shape of the shadows, tall narrow structures. Mr. Larry Parker, a long-time resident of Lea County and former employee of Controlled Recovery Incorporated, stated that the Site was used as a jet fuel refinery (INTERA, 2009). Therefore, these tall, narrow structures formerly located in the central part of the Site may have been cracking or distillation towers. Given the larger tank sizes, the western part of the property was probably used for crude storage, and the eastern cluster for product storage. A tractor trailer truck can be seen in the 1978 aerial photograph just north of the central processing area; this area may have been used for product loading. A large AST is noted approximately 100 ft south of the southwestern property boundary and three smaller ASTs are noted approximately 200 ft south of the south-central Site boundary

It is unknown how long refinery operations occurred at the Site. Based on information obtained from the Lea County Tax Assessor, Enersource became the property owner in 1985. It is believed that Enersource used the facility to reclaim crude oil until sometime prior to 2006 when INTERA was contracted by OCD. Mr. Parker stated that the structures formerly located in the central part of the Site were dismantled and sold for scrap. The structures and materials that were not sold were buried in the west-central portion of the Site. It is unknown when this occurred. As discussed below, this waste has since been removed from the Site.

# 1.3 Previous Investigations

#### 1.3.1 2006 Phase I Remediation

INTERA was contracted in 2006 to test the existing ASTs and fluids/sludge for naturally occurring radioactive materials and subsequently remove these materials from the Site. The ASTs and some underground piping were removed from the Site and disposed of at an offsite facility in the summer of 2006. During the removal action, eight soil samples were collected and



analyzed for the presence of total petroleum hydrocarbons (TPH)-diesel range organics (DRO), TPH-motor oil range organics (MRO), and chlorides. Reported concentrations for TPH-DRO in the soil samples ranged from 2,900 to 9,400 milligrams per kilogram (mg/kg); TPH-MRO was detected in only a single soil sample at 6,000 mg/kg. Reported concentrations for chloride in the soil samples ranged from 4.7 to 570 mg/kg.

#### 1.3.2 2007 Phase II Remediation

In April 2007, a geophysical survey was performed to identify buried metal objects at the Site. The survey revealed the presence of several thousand feet of underground piping and large metal objects scattered throughout the Site. From May to June 2007, INTERA and its subcontractor removed these subsurface materials and disposed of them at an offsite facility. Trenching performed during the piping removal, as well as soil sampling activities performed as part of previous removal actions, revealed the presence of contaminated soils in several Site areas (INTERA, 2007).

# 1.3.3 2009 Remedial Investigation and Removal Action

In June 2009, INTERA completed a Remedial Investigation and Removal Action (RI/RA) at the Site (INTERA, 2009). The intent of the RI was to collect sufficient soil and groundwater data to (1) characterize the extent of hydrocarbon contamination at the Site, and (2) support the development of any future Site remediation. The intent of the RA was to remove contaminated soil beneath an abandoned pit on New Mexico State Land Office property located immediately southwest of the Site.

From June 9 to June 18, 2009, 45 soil borings (DPB-01–DPB-45) were advanced to an average total depth (TD) of 7.5 ft bgs using direct push technology (DPT) drilling and sampling methods. In addition, 6 borings (MW-01–MW-06) were advanced using hollow stem auger (HSA) drilling and sampling methods to approximately 45 ft bgs (i.e., approximately 10 ft below the water table). These 6 borings were then converted to single screen 4-inch polyvinyl chloride (PVC), flush threaded, schedule 40, groundwater monitoring wells. The 2009 drilling and sampling locations are illustrated on Figure 2b.

A total of 118 soil samples were collected from the DPT borings and 27 soil samples were collected from the HSA borings. All soil samples were submitted for analysis of TPH-DRO, TPH-MRO, and TPH-gasoline range organics (GRO) by EPA Method 8015B; BTEX (benzene, toluene, ethyl benzene, and total xylenes) by EPA Method 8260B; and chlorides by EPA Method 300.0. In addition, 10 percent of the samples containing the highest concentrations of TPH were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. Five groundwater samples were collected on June 26 and 27, 2009, and submitted for analysis of VOCs by EPA method 8260B, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, chlorides by



EPA Method 300.0, and total dissolved solids (TDS) by EPA method SM 2540C. A groundwater sample was not collected at MW-03 as LNAPL was present on the water table at a thickness of 1.42 ft.

Analytical results of the 2009 RI sampling effort indicate that an area greater than two acres contains TPH in shallow soils (i.e., surface to 6 ft bgs) at concentrations above New Mexico Environment Department and OCD action levels (INTERA, 2009). Benzene, BTEX, and chlorides at concentrations above action levels are also present in shallow soils, but within smaller areas. The shallow soils most impacted by benzene are located in the following areas: pit, central processing, product loading, and eastern AST (Figure 2a).

Analytical results obtained primarily from samples collected during HSA drilling indicate that subsurface Site soils (i.e., > 6 ft bgs) are also generally impacted by TPH, benzene, BTEX, and chlorides over a large area; however, specifics regarding the extent of subsurface contamination at the Site could not be determined due to a limited subsurface sampling dataset (INTERA, 2009).

Results of the initial groundwater sampling event indicate that dissolved-phase benzene is present in Site groundwater at concentrations that are one to two orders of magnitude above New Mexico Water Quality Control Commission (NMWQCC) standards (INTERA, 2009).

Excavation of the pit located in the southwest corner of the Site was initiated on June 8, 2009 and confirmation samples were collected from June 23 to June 25, 2009. Pit excavation was completed to a depth of 10 ft bgs and removed approximately 4,000 cubic yards of contaminated soil. The excavated soil was disposed of at a nearby landfill as the presence of high chloride concentrations precluded disposal at a landfarm. Results of the 2009 confirmation soil sampling indicate that soil containing TPH (and possibly benzene, BTEX, and chloride) above action levels remains below and along the side walls of the excavation (INTERA, 2009).

## 1.3.4 2011 Groundwater Sampling

A second round of groundwater sampling was initiated for the six Site monitoring wells in January 2011 (INTERA, 2011) (Figure 2b). LNAPL was again observed in MW-03 at a thickness of 0.33 ft, therefore, only five groundwater samples were collected and submitted for the analysis of VOCs by EPA method 8260B, chlorides by EPA method 300.0, and TDS by EPA method SM 2540C.

Results of the 2011 sampling event reported dissolved-phase benzene at concentrations exceeding the NMWQCC standard of 10 micrograms per liter ( $\mu$ g/L): 2,600  $\mu$ g/L at MW-02, 480  $\mu$ g/L at MW-05, and 6,200  $\mu$ g/L at MW-06. Ethylbenzene, total xylenes, 1,2-dichloroethane



(EDC), and total naphthalenes were also detected above reporting limits (RLs) in groundwater, but at concentrations below the respective NMWQCC standard. Based on these results, it was determined that the extent of dissolved-phase benzene was not well defined in the southern or northeastern portions of the Site. In addition, contamination has likely migrated offsite to the south, and the extent of LNAPL is also not defined.

# 1.4 Contaminants of Concern and Additional Data Requirements

Based on known historical Site operations as well as Site investigative findings to date, the following constituents are identified as contaminants of concern (COCs) for soils at the Former Enersource Facility: VOCs (particularly BTEX), semi-volatile organic compounds (SVOCs) (specifically PAHs), TPH, and chloride. VOCs (particularly benzene and EDC), SVOCs, and chloride are also identified as COCs in groundwater. In addition, 1,2-dibromoethane (EDB) was identified as a contaminant of potential concern in groundwater for the 2012 investigation.

Results of the 2009 RI/RA indicated that a release, or releases, of hydrocarbons at the former Famariss Energy Refinery and/or Enersource facility impacted soil and groundwater at the Site. The presence of TPH-GRO and EDC, coupled with the high benzene to BTEX concentration ratios, indicate that a portion of the release was refined product or gas condensate. The high TPH-DRO and TPH-MRO concentrations suggest that a release of crude oil also occurred at the Site. However, additional subsurface data was required to establish the extent of subsurface contamination.

Results of both the 2009 and 2011 groundwater sampling events indicate that a hydrocarbon-type release(s) in the vicinity of the Site impacted groundwater quality. Benzene, chloride, and total naphthalenes are all present in the groundwater at concentrations exceeding their respective NMWQCC standard and EDC and ethylbenzene concentrations were detected above RLs. LNAPL was also observed on the surface of the water table at MW-03 during both sampling events. However, additional data was required to further establish the extent of groundwater contamination, particularly for the southern and northeastern portions of the Site. In addition, EDB was added as a Site contaminant of potential concern for groundwater for the 2012 investigation due to its potential use as a lead scavenger in fuel.

# 1.5 Scope of Work and Work Plan Deviations

To address additional data requirements and to evaluate options for the recovery of LNAPL at the former Enersource facility and surrounding area, a scope of work was submitted to OCD on February 24, 2012, for the following activities (INTERA, 2012):

• Obtain site access for SLO property.



- Clear underground utilities.
- Drill and sample up to five soil borings south (downgradient), west, and east of the previously installed wells (Round 1).
- Drill and sample up to four additional soil borings south and east of Round 1 borings if VOC contamination is observed during Round 1 drilling (Round 2).
- Install and develop of up to nine groundwater monitoring wells.
- Complete one event of groundwater sampling for all new and previously existing monitoring wells in the area of investigation.
- Perform a baildown/recovery test at MW-03 to determine the recovery rate of LNAPL.

All activities were completed as described in the scope of work with the following exceptions:

- A total of eight soil borings were drilled and sampled instead of the proposed nine. An
  additional boring was not drilled and sampled east of MW-07 due to the close proximity
  of active underground pipelines.
- Since only eight borings were drilled during the 2012 investigation, only eight monitoring wells were installed and developed.
- MW-13 and MW-14 was sampled immediately after development instead of waiting the required.
- A groundwater sample was not collected at MW-02 and MW-03 due to the presence of LNAPL.
- 25, labeled drums containing drill cutting are currently onsite pending final disposition.
   The specific number of drums located at each well site is provided in the field notes contained in Appendix B.



# 2.0 FIELD ACTIVITIES

2012 Site investigation field activities were performed from May 8 to May 28, 2012. Field notes and photographs are provided in Appendices B and C, respectively. Details of the field activities are provided in the following subsections.

Prior to the initiation of any ground-breaking activities in the field, a series of field planning and readiness activities had to be completed including: procurement of performance bond for the OCD, land access agreement (including damage bond), utility locates, Site health and safety and quality assurance plans, and well permits. Since the proposed monitoring well locations for the 2012 investigation were outside the Site property boundary, facility-tenant agreements between respective property owners (SLO) and OCD had to be in-place to gain access to all projected drilling and sampling locations. In addition, for all locations where exploration of the subsurface was proposed, a utility locate had to be performed and clearance obtained from all respective overseeing parties (i.e., Chevron, Apache, Northern Natural Gas, Southern Union Plains, RICE, NM Gas, El Paso Natural Gas, DCP Midstream, Transwestern, Holly energy) to ensure no live structures/facilities were encountered or damaged during the investigation. A work plan detailing the Site health and safety plan, quality assurance plan, control procedures, the management of all investigation-derived waste, and the 2012 scope of work was completed and made readily available throughout execution of the field activities. As the OSE requires that monitoring wells be permitted prior to drilling, well permits were applied for and obtained prior to any well installation and development. The SLO Application for Water Easement, the SLO approval letter, the OCD performance bond, and the SLO damage bond are provided in Appendix D; completed OSE well permits are provided in Appendix E.

# 2.1 Soil Boring Advancement, Soil Screening, and Soil Sampling

From May 9 to 15, 2012, a total of five soil borings (MW-07–MW-11) were advanced using HSA drilling and sampling methods as part of the Round 1 drilling and sampling campaign, and groundwater monitoring wells were installed. On May 16, 2012, boring MW-12 was advanced south (downgradient) of MW-11 and MW-07 as part of the Round 2 drilling and sampling campaign, and a groundwater monitoring well was installed. On May 25, 2012, boring MW-14 was advanced south (downgradient) of MW-08 and MW-09 as part of the Round 2 drilling and sampling campaign, and a groundwater monitoring well was installed. On May 26, 2012, boring MW-13 was advanced south (downgradient) of MW-10 as part of the Round 2 drilling and sampling campaign, and a groundwater monitoring well was installed. Drilling of a Round 2 boring downgradient of MW-07 was not completed due to the close proximity active underground pipelines (see deviations, section 1.5 above). All 2012 drilling and sampling locations are depicted on Figure 2a. Additional details regarding the drilling, sampling, and



screening methods implemented during the 2012 investigation are provided below. Details regarding decontamination and other quality assurance methods utilized during the 2012 investigation are provided in the work plan (INTERA, 2012).

# 2.1.1 HSA Borings

All soil borings (MW-07–MW-14) were initially drilled using a CME 85 HSA drill rig equipped with a 7 %-inch outer diameter (OD) auger bit and a 5-ft-long continuous core barrel sampler. After completing sample collection, Round 1 borings (MW-07–MW-11) were overreamed with a 10-inch OD auger outfitted with a wooden plug to accommodate the installation of 4-inch wells. Round 2 borings were completed as 2-inch wells. Target TD for borings was 50 ft bgs, approximately 10 ft below the anticipated water table. Final TDs ranged from 48–51 ft bgs. Completed boring logs for MW-07–MW-14 are provided in Appendix E.

Prior to initiating drilling, all boring locations were hand augered with a post-hole digger to approximately 5 ft bgs to ensure that no underground structures (e.g., utilities) were encountered. During boring advancement, soil was continuously cored using a 5-ft-long continuous core barrel sampler. Upon collection, all core was visually inspected for signs of contamination (e.g., staining), lithologically logged, and field screened for the presence of VOCs using a hand-held photoionization detector (PID) equipped with a 10.6 electron volt lamp. VOC field screening data was collected utilizing the heated-headspace technique. All core observations and measurements were then recorded in the field notebook (Appendix B) and/or on the appropriate soil boring log (Appendix E). A summary of the VOC field screening results obtained for MW-07–MW-14 are provided in Table 1.

From each location, a single soil sample was collected and placed in a laboratory-provided container, preserved as appropriate, and submitted under chain of custody to Hall Environmental Analysis Laboratory, Inc. (HEAL) of Albuquerque, New Mexico. Analytical samples from each location were selected based on field screening results (i.e., the sample having the highest PID reading) and/or staining/olfactory observations. All soil samples were submitted for the analysis of the following:

- VOCs by EPA Method 8260B (with methanol extraction)
- TPH-GRO, TPH-DRO, and TPH-MRO by EPA Method 8015B (with methanol extraction for TPH-GRO)
- SVOCs by EPA Method 8270C Selective Ion Monitoring
- Chloride by EPA method 300.0



Analytical results of the 2012 soil sampling are summarized on Table 2. Copies of the full analytical chemistry laboratory reports are provided in Appendix F.

In accordance with the work plan, drilling and sampling equipment were decontaminated prior to commencement of drilling and between borings, and the PID was calibrated daily (INTERA, 2012). The management and disposal of all drill cuttings and core generated during boring advancement not selected for offsite laboratory sample analysis was determined by corresponding VOC field screening results. Drill cuttings with PID readings less than 100 parts per million (ppm) were spread thin on the ground adjacent to the soil boring. Drill cuttings with corresponding PID readings greater than 100 ppm were drummed and staged onsite, pending final disposition.

# 2.2 Monitoring Well Installation and Development

Upon completion of soil field screening and sampling activities, each boring was completed as a single screen, flush-threaded, schedule 40, PVC groundwater monitoring well (Figure 2a). Wells MW-07–MW-11 were completed as 4-inch wells and MW-12–MW-14 were completed as 2-inch wells.

Each well was installed with 15 ft of 0.020-inch slot screen with an end cap and blank casing to the surface. The annular space of each well was backfilled with 10/20 gradation silica sand (filter pack) to approximately 2 ft above the top of the well screen, and 2.5–4 ft of hydrated bentonite chips were then placed above the filter pack, followed by cement/bentonite grout to 3 ft below grade. Surface completion for all wells consists of an above-ground, sloped, 3 ft by 3 ft concrete pad and a protective metal standpipe with locking cover. Details regarding well construction and completion are summarized on Table 3. Well completion diagrams for MW-07–MW-14 are provided in Appendix E.

Upon completion, each well was developed using a mini monsoon pump to remove fines and to clean the sand filter pack. Wells MW-07–MW-14 were purged until water quality parameters (turbidity, pH, and specific conductance) stabilized within three readings. Approximate volumes of water removed (in gallons) from the wells are as follows: 32 (MW-07), 30 (MW-08), 28 (MW-09), 61 (MW-10), 30 (MW-11), 60 (MW-12), 60 (MW-13), and 60 (MW-14). All data collected during well development were recorded, as appropriate, on the well development sheets and in the field logbook (Appendix B).

Per the approved investigation-derived waste management plan outlined in the scope or work, all wastewater produced during well development was discharged to an on-site impervious surface and allowed to evaporate (INTERA, 2012).



# 2.3 Monitoring Well Surveying and Sampling

For all new wells, the location and elevation of the north side of the top of the PVC casing (TOC) and ground surface elevation were surveyed by John West surveying on May 30, 2012. The north side of the TOC was used as a reference point for all monitoring well fluid level and total depth measurements. Well elevations for all wells in the area of investigation are reported in Tables 3 and 4. The completed survey report from John West surveying is provided in Appendix G.

A decontaminated interface probe was used to measure fluid levels in wells MW-01 and MW-03–MW-11 on May 22, 2012 and in MW-02 on May 23, 2012. Fluid levels were measured in wells MW-12–MW-14 immediately upon surface completion on May 26, 2012 (MW-12) and on May 28, 2012 (MW-13 and MW-14). Results were documented in the field logbook and/or on the monitoring well gauging data log provided in Appendix B and summarized in Table 4.

On May 22, 2012, LANPL was observed on the surface of the water table at MW-03 and measured 1.80 ft thick; LNAPL was also observed on the surface of the water table at MW-02, but an accurate measurement of LNAPL thickness (0.52 ft) was not successfully obtained until May 23, 2012 (Table 4).

Between May 22 and May 28, 2012, a single round of groundwater samples was collected from 12 of the 14 area of investigation monitoring wells (MW-01 and MW-04–MW-14) using a flow through cell, field water quality meter (YSI 556 MPS), and a low-flow sampler (Solonist bladder pump) and/or disposable bailer. Groundwater samples were not collected at wells MW-02 and MW-03 due to the presence of LNAPL. Wells sampled using the low-flow bladder pump (MW-01–MW-12) were purged until the water quality parameters (dissolved oxygen, oxidation-reduction potential, temperature, specific conductance, and pH) stabilized. MW-13 and MW-14 were sampled using a disposable bailer immediately after development. For these wells, a minimum of five casing volumes of groundwater were purged prior to sample collection (see Section 2.2 above). Throughout purging and sampling, fluid level depths and water quality parameters were measured and recorded in the field logbook, the low-flow sampling log, and/or the well development sheets. All field logs related to groundwater sampling are provided in Appendix B.

All 12 groundwater samples were placed in laboratory-provided containers, preserved as appropriate, and submitted under chain of custody to HEAL for the following analysis:

- VOCs (and total naphthalenes) by EPA Method 8260B
- EDB by EPA Method 504.1



- Dissolved chloride by EPA Method 300.0
- TDS by modified method SM 2540C

Analytical results of the 2012 groundwater sampling are summarized on Table 5. A copy of the full analytical chemistry laboratory report is provided in Appendix F.

# 2.4 LNAPL Bail Down/Recovery Test

An LNAPL baildown/recovery test was completed at monitoring well MW-03 to determine the recovery rate of LNAPL. Approximately 3.25 gallons of LNAPL and approximately 0.75 gallons of water were evacuated using a disposable bailer in a 45-minute period. Recovered LNAPL was poured back down MW-03 at the completion of the baildown/recovery test. Field personnel monitored the recharge rate by taking depth-to-product and depth-to-water measurements. Frequent measurements were observed during the first half hour after LNAPL removal and every hour thereafter. The depth-to-product and depth-to-water measurements are summarized in Appendix H, Table H-1 and Figure H-1.



# 3.0 DISCUSSION OF FINDINGS

This section presents a review of the 2012 Investigation findings and associated analytical results. All 2012 analytical data are evaluated in conjunction with applicable analytical data obtained during previous investigations to assist in evaluating the nature and extent of contamination at the area of investigation. For the purposes of this discussion, the 2012 investigation data are evaluated with respect to further understanding the following three investigation components: (1) hydrogeology, (2) distribution of contaminants in soil, and (3) distribution of contaminants in groundwater. Details regarding these components are provided in the following subsections.

# 3.1 Hydrogeology

Current knowledge of hydrogeology in the area of investigation is based on (1) a review of applicable regional geologic studies, and (2) observations and measurements reported for soils and groundwater during the 2012 Investigation. Additional details regarding the area of investigation hydrogeology can be found on the completed 2012 boring logs and monitoring well completion diagrams provided in Appendix E.

# 3.1.1 Stratigraphy

In general, three stratigraphic units were encountered in the 51 ft of subsurface penetrated during installation of the 2012 borings:

- Unit 1: Sand with variable amounts of silt and clay.
- Unit 2: Silty, fine-grained sand with discontinuous layers of caliche and clay.
- Unit 3: Interbedded clay and sand with variable amounts of clay.

These units are consistent with the stratigraphic units observed during the 2009 RI drilling campaign and described as part of the RI/RA report (INTERA, 2009).

For the 2012 borings, surface and near-surface soils (Unit 1) consisted of fine- to medium-grained, poorly graded sands with variable amounts of silt and clay and trace gravel, and typically appeared brown to reddish-brown in color with little to no cementation (i.e., loose) and no associated odors (e.g., hydrocarbon). The apparent thickness of Unit 1 ranged from 3.5 ft bgs in MW-12 to approximately 35 ft bgs in MW-11, but more typically was observed in just the first 5 to 10 ft bgs of the boring. The observance of such a high degree of variability of unit thickness over such a small area can be accounted for as follows:



- The contact between Unit 1 and Unit 2 appears gradational.
- The characterization of caliche in the field, the dominant characteristic defining Unit 2, is somewhat subjective as the degree of caliche development can vary greatly over a small area. In addition, the caliche observed in the area of investigation appears very discontinuous in both occurrence and thickness and varies in amount of intermixed sand.

Unit 2, as observed in the 2012 borings, varied from pinkish-white to reddish-brown, dry to moist, with sand to silty sands, and was defined either by the presence of (1) laminar caliche layers ranging in thickness from 1 inch (MW-11) to massive units of up to 24.5 ft (MW-09), or (2) caliche nodules. Apparent average thickness of Unit 2 observed in the 2012 borings was 44 ft; however, most of the 2012 borings either showed a gradational Unit 1/Unit 2 contact (i.e., MW-08, MW-11) or Unit 2 was still encountered at TD (i.e., MW-07 and MW-11–MW-13). The presence of caliche was first noted at 5.5 ft bgs at MW-07; 13 ft bgs at MW-08; 14 ft bgs at MW-09; 7.5 ft bgs at MW-10; 33.5 ft bgs at MW-11; 4 ft bgs at MW-12; and 6 ft bgs at MW-13 and MW-14. Ft-thick caliche layers were observed in MW-08-MW-10, MW-13, and MW-14, whereas only caliche nodules and/or inch-thick laminar caliche ribbons were observed sporadically in MW-07, MW-11, and MW-12. Caliche was most prominent in MW-09, encountered at 14.0 ft bgs to 38.5 ft bgs, and was capped by a 3-ft-thick layer of strongly cemented, reddish-brown clay. A clay layer was also observed directly coupled with caliche in MW-08, but only below the caliche. These observations are consistent with the variability observed in the occurrence of Unit 2 in 2009 RI borings (INTERA, 2009) and suggest that caliche is lens shaped and is more prevalent on the western edge of the area of investigation and locally pinches out towards the east.

The deepest unit observed, Unit 3, was first encountered in borings MW-08 (at 44 ft bgs), MW-09 (at 38.5 ft bgs), MW-10 (at 38 ft bgs), and MW-14 (at 39 ft bgs). Unit 3 is generally defined by the presence of interbedded sands with variable clay content and/or clay with little to no caliche. Sand layers ranged from 1–5 ft thick and varied from fine-grained, poorly graded sandy clay/clayey sand to fine- to medium-grained, well-graded sands. Unit 3 sand beds defined the Unit 2/Unit 3 contact at MW-09 and MW-10. At MW-08, the inferred Unit 2/Unit 3 contact was defined by a layer of wet, reddish-brown lean clay with strong hydrocarbon odor at least 5 ft thick (to TD). A layer of reddish-brown lean clay was also observed in MW-09 and MW-10 at 45 ft bgs and 43.5 ft bgs, respectively, and ranged in apparent thickness from 1.5 ft thick in MW-10 to at least 4 ft thick (to TD) at MW-09. Caliche nodules in trace amounts were intermittent throughout several of the Unit 3 layers and were not relegated to only sand-rich or clay-rich layers.



Indications of hydrocarbon contamination were most prevalent throughout Unit 2, and generally appeared to be coupled with the onset of a prominent caliche presence (except at MW-11 where little caliche was encountered) and moist to wet soil conditions. Hydrocarbon odors and/or staining (gray to black) were observed in the soils collected from all the borings. Strong hydrocarbon odors were observed in most borings starting around 14 ft bgs (9 ft bgs in MW-07) and continued to be observed to some degree throughout Unit 2, which, at MW-07 and MW-11–MW-13, was at TD. At MW-10, hydrocarbon odor was observed to be strong throughout the sandy layers of Unit 2, weak in a lean clay layer inferred as the Unit 2/Unit 3 contact, and not present in the Unit 3 silty sands below the clay. Hydrocarbon odor was also noted as strong in the Unit 2 sands and weak in the underlying lean clay layer inferred as the Unit 2/Unit 3 contact at MW-09; however, as drilling did not advance past this clay layer, it cannot be determined to what extent hydrocarbon contamination exists in the Unit 3 sands inferred below the clay. Black hydrocarbon staining was observed in moist, silty sand at MW-08 at 37.3–38 ft bgs and at MW-14 at 38.2 ft bgs in the immediate vicinity of contact with the water table.

Groundwater was also encountered in Unit 2 in primarily sand- or silty sand-dominant layers except at MW-09, where caliche was dominant. Groundwater occurrence appeared coincident with strong hydrocarbon odor or staining except at MW-11 or MW-12 where neither was noted. Details regarding groundwater conditions for the area of investigation are discussed further in the following subsection.

# 3.1.2 Groundwater Conditions

The water table was encountered in the 2012 wells at approximately 38 ft bgs (range: 37 ft bgs [MW-09]–39 ft bgs [MW-11]) within Unit 2. This reported water table depth is approximately 3 ft deeper than where the average water table was reported as encountered (i.e., 35 ft bgs) during the installation of wells MW-01–MW-06 in 2009 (INTERA, 2009). Current water table elevation readings for wells MW-01 and MW-04–MW-11, as recorded on May 22, 2012, ranged from 3541.42 ft amsl at MW-11 to 3544.49 ft amsl at MW-01, and averaged 3543.23 ft amsl (Table 4). Although water table elevation readings for wells MW-12–MW-14 were measured a few days subsequent to the other wells in the area of investigation, the fluid level readings for these wells appear consistent with the May 22 readings (Table 4). Based on this data, the 2009 wells can only account for an additional average of 4 ft of fluctuation in the local water table before running a risk of the 2009 wells going dry.

According to the 2012 groundwater elevation data, estimated groundwater flow direction is to the southeast (Figure 3), which is generally consistent with the groundwater flow direction calculated in 2009 from wells MW-01–MW-06; however, the calculated 2012 hydraulic gradient of 0.005 ft/ft is greater than the hydraulic gradient of 0.002 ft/ft calculated in 2009. This increase



likely reflects the change in hydraulic gradient inferred immediately downgradient from MW-10 with preferential flow towards MW-14 from both the east and west as illustrated on Figure 3. It is also important to note that the Rice Well MW-1, a remediation well, is located immediately downgradient from the area containing LNAPL and may have promoted LNAPL migration to the southeast.

The groundwater quality parameters temperature, specific conductivity, and pH, were recorded for all wells during groundwater sampling activities. Additionally, dissolved oxygen (DO) and oxidation reduction potential (ORP) were recorded for those wells that were sampled using low-flow sampling techniques (i.e., monitoring wells MW-01 and MW-03–MW-12). Site minimum, maximum, and average water quality parameters, which were measured after stabilization was reached, are reported below. The minimum temperature recorded was 21.57 degrees Celsius (MW-04), the maximum recorded was 24.4 degrees Celsius (MW-12), and the Site average was calculated as 22.48 degrees Celsius (73 degrees Fahrenheit). The minimum pH measured was 6.43 (MW-13), the maximum measured was 7.38 (MW-01), and the Site average was calculated as 6.91. The minimum specific conductivity recorded was 7,462 microsiemens per centimeter  $(\mu S/cm)$  (MW-07), the maximum was recorded as 24,504  $\mu$ S/cm (MW-13), and the Site average was 17,845  $\mu$ S/cm. The minimum DO measured was 0.06 mg/L (MW-09), the maximum measured was 0.86 mg/L (MW-04), and the Site average was 0.31 mg/L. The minimum ORP recorded was -139 millivolts (mV) (MW-06), the maximum recorded was 19.8 mV (MW-01), and the Site average was calculated as -42.1 mV.

The DO and ORP values recorded during sampling indicate that Site groundwater is under anoxic conditions. It is not uncommon to see anoxic conditions in highly contaminated portions of petroleum hydrocarbon plumes with aerobic conditions at the perimeter. The greatest DO and ORP concentrations exist at the northern perimeter of the plume, although these values are still considered anoxic. The lowest DO value was recorded at MW-09, which corresponds to the highest benzene and BTEX values. The maximum specific conductivity reading was recorded at MW-13, which corresponds to the highest chloride detection.

LNAPL was observed to be present on the water table at both MW-02 and MW-03, and on May 22 and 23, 2012, LNAPL thickness was measured at 1.80 ft at MW-03 and 0.52 ft at MW-02, respectively (Table 4). LNAPL has periodically been observed at MW-03 since well installation in 2009, but 2012 marks the first time LNAPL has been observed at MW-02. Further discussion regarding the distribution of COCs in soils and groundwater at the area of investigation are presented in the following sections.



# 3.2 Distribution of Contaminants in Soil

# 3.2.1 VOC Soil Screening Results

As summarized in Section 2.1.1, field screening of soil samples for the presence of VOCs was performed during the 2012 soil sampling activities and the results are summarized in Table 1. Figures 4 and 5 depict the distribution of VOCs in shallow (< 10 ft bgs) and deep (> 6 ft bgs) soil for the Site, respectively. For the purposes of overall Site characterization, VOC data collected during the 2009 investigation are included in the evaluation.

As illustrated by Figure 4, the shallow soils most impacted by VOCs (i.e., > 100 ppm) are mainly located in the central east end of the property, which supports the current interpretation that this area of the Site historically hosted product and additive processing and storage operations (see Section 1.2). The highest PID reading in Site shallow soil remains a 2009 PID reading of 3,575 ppm measured at 4.0 ft bgs during the installation of MW-05. Shallow soils collected immediately to the west (MW-06, MW-08, DPB-01, DPB-02) and south (MW-12-MW-14) of the impacted area show a marked decrease in observed VOC concentrations to non-detectable or near non-detectable levels (range: 0.0–1.3 ppm). These results suggest the lateral extent of VOC contamination in Site shallow soils is bounded to the west and south of the property. In addition, the data suggest the transport of VOCs potentially present near the surface offsite by surficial processes (e.g., wind, surface flow) appears not likely a concern as the overall Site topographic gradient, though shallow, decreases to the south. Shallow soils sampled directly to the north of the property line also show a decrease in VOC concentrations indicating that the lateral extent is most likely bounded to the north as well. However, the lateral extent of VOC contamination in shallow soils to the east of the property does not appear defined. Data collected from MW-07 and MW-11 indicate VOCs are still present at elevated concentrations in Site shallow soils, reported at 246 ppm and 107 ppm, respectively. Further east of these locations, however, are the property and structures associated with numerous underground pipelines and the El Paso Natural Gas facility.

As illustrated by Figure 5, Site soils are impacted by VOCs at depth and, based solely on field screening data, the vertical extent of VOC contamination appears not defined. Maximum PID readings of over 1,000 ppm (range: 1,266 ppm at MW-07 to 2,117 ppm at MW-10) were recorded in the soils collected from all 2012 borings as follows:

- North end of the area of investigation (i.e., MW-07 and MW-08) at a depth interval of 14–19 ft bgs.
- South end of the area of investigation (MW-09, MW-10, MW-13, and MW-14) at a depth interval of 19–29 ft bgs.



• Southeast (downgradient) end of the area of investigation (MW-11 and MW-12) at a depth interval of 29–34 ft bgs.

These elevated PID readings closely correlate with the first observance of hydrocarbon contamination observed in the borings as well as a dominant caliche presence. The highest PID reading in deep soil, however, remains the 2009 PID reading of 4,358+ ppm measured at 14 ft bgs at DPB-05, located in the south central portion of the property.

Consequently, a reduction in PID readings appears to be coincident upon encountering the water table. At all 2012 locations, PID readings showed a decreasing trend to lower concentrations after approximately 40 ft bgs (below the observed water table) (Table 1). At MW-10, MW-13, and MW-14, PID readings decreased to near non-detectable levels at 41 ft bgs, 44 ft bgs, and 48 ft bgs, respectively, indicating the vertical extent of VOC contamination is defined along the southern edge of the investigation area. These "clean" intervals appear to correlate closely with the first presence of a clay- or caliche-rich unit below the water table, suggesting that these clay-rich layers (when submerged) might act as partial barriers and preferentially impede further vertical migration of VOCs in soils. Locations MW-09, MW-10, and MW-12 also showed a decreasing trend, but significant levels of VOCs were still measured at TD (20–30 ppm). At MW-07 and MW-08, PID readings were still elevated (~100 ppm) at TD. These data indicate that the vertical extent of VOC contamination remains undefined towards the north, east, and west of the Site. These observations also strongly suggest a close link exists between subsurface VOC contamination in the soils and the water table.

VOCs were also analyzed in Site soils at an offsite laboratory by U.S. EPA Method 8260B, and the analytical results of the 2012 soils (Table 2) indicate that VOC concentrations are much less than anticipated from observed PID field screening results (Table 1). Details regarding the analytical laboratory results for 2012 soils are discussed further below.

## 3.2.2 Laboratory Results

Previous investigations identified VOCs (particularly BTEX), SVOCs (specifically PAHs), TPH, and chloride as COCs in Site soils that require additional investigation. As a result, a total of eight soil samples were collected from the 2012 borings (one from each location) at depths ranging from 14–34 ft bgs and submitted for the offsite analysis of VOCs; TPH-GRO, TPH-DRO, and TPH-MRO; SVOCs; and chloride (Section 2.1.1). Since the depths at which 2012 soil samples were collected for offsite analysis were determined by field screening results and visual/olfactory indications, no samples were collected at the near surface; therefore, no new analytical data were obtained for shallow soil (<10 ft bgs) characterization. A summary of the 2009–2012 analytical chemistry results for Site soils is provided in Table 2. The spatial



distribution of TPH, benzene, BTEX, and chloride in shallow (< 6 ft bgs) and deep (> 6 ft bgs) soil is presented in Figures 6–9 and 10–13, respectively.

#### 3.2.2.1 Shallow soils

As presented on Figures 6–9, shallow Site soils collected in 2009 indicate the presence of TPH, benzene, BTEX, and chloride. The highest concentration of TPH in shallow soil (41,000 mg/kg) was measured in a sample collected at 2.5 ft bgs from DPB-40, located in the north central section of the Site. The petroleum hydrocarbons in this sample were all TPH-DRO and TPH-MRO. The highest TPH-GRO concentration was 1,400 mg/kg and was measured in a sample collected at 3.5 ft bgs at DPB-30, located in the south-central portion of the Site. The highest concentration of benzene and BTEX measured was 19 mg/kg and 95 mg/kg, respectively, at 2 ft bgs at DPB-27, located in the south-central portion of the area of investigation. The highest concentration of chloride in shallow soil was 980 mg/kg, reported in a sample collected at 6.0 ft bgs in DPB-07, located on the west end of the Site.

TPH appears to be the primary COC for shallow soils, impacting an on-site area (i.e., within the Site boundary) covering approximately 100,000 square feet (approximately 2.3 acres) and extending offsite into the 2012 area of investigation. Elevated levels (i.e., >500 mg/kg) of TPH were primarily observed in shallow soils collected from the east end of the Site and continued to be observed at elevated levels in samples collected from perimeter locations north and south/southeast of Site property. A pocket of isolated TPH-impacted soils (DPB-07) was also identified in the west-central end of the Site, north of the pit. Confirmation sampling, performed as part of the 2009 RA, also verified that elevated levels of TPH remain in the soils comprising the south and west walls of the excavation (INTERA, 2009). These data indicate that the lateral extent of TPH contamination is not defined towards the north, east, and south of the area of investigation.

The area impacted by benzene and BTEX (Figures 7 and 8) is much smaller than the area impacted by TPH and appears more concentrated to particular process areas. Benzene was detected in a total of seven shallow soil samples collected in 2009, and reported concentrations ranged from 0.22–19 mg/kg. Although smaller areas, the general distribution of shallow soils impacted by benzene appears similar to the areas impacted by TPH and include: (1) areas to the north and south of the former pit, (2) the south end of the inferred central processing area extending south into the 2012 area of investigation (southeast of MW-02), and (3) an isolated pocket on-site, in the west-central area around the concrete basin. BTEX appears to have impacted an even smaller area of the Site, but again, the distribution of elevated BTEX (<50 mg/kg) in shallow Site soils appears to coincide with area(s) also impacted by benzene and TPH. Elevated concentrations of BTEX were reported in two soil samples: the first sample, taken from



the south-central end of the Site at DPB-30, had a BTEX concentration of 66.8 mg/kg, and the second sample, taken from the 2012 area of investigation immediately south of DPB-30, had a BTEX concentration of 95 mg/kg. These data indicate that the lateral extent of benzene and BTEX contamination is not defined downgradient (south/southeast) of the Site.

Elevated concentrations of chloride (>500 mg/kg) were reported in seven shallow soil samples and ranged from 510–980 mg/kg (Figure 9). The distribution of chloride-impacted shallow soil generally coincides with the presence of elevated TPH and includes: (1) an area in the southwest part of the Site, inferred at the eastern AST area; (2) an isolated pocket (DPB-07) in the west-central end of the Site, north of the pit; and (3) an offsite location in the 2012 area of investigation, southeast of MW-02. These data indicate that the lateral extent of chloride contamination is not defined downgradient (south/southeast) of the Site.

# 3.2.2.2 Deep Soils

As presented on Figures 10, 12, and 13, the 2012 analytical results support the 2009 findings that deeper soils (> 6 ft bgs) in the area of investigation are also impacted by TPH, BTEX, and chloride. Benzene, however, was not detected in subsurface soils above the RL during the 2012 investigation (Figure 11).

Analytical results obtained from the soil samples collected at MW-07–MW-14 indicate that TPH is present at depths correlating to high PID readings, with reported TPH concentrations ranging from 143 mg/kg at MW-08 to 2,900 mg/kg at MW-07 (Figure 10). TPH detected at MW-08 consisted mainly of TPH-GRO components, whereas the TPH detected at MW-07, MW-11, MW-12, and MW-14 consisted mainly of TPH-DRO and TPH-MRO components. MW-08 is located immediately west (upgradient) of the Site (inferred west AST area), whereas the other locations are downgradient (south and west) of the Site (inferred east AST area). TPH detected at MW-09, MW-10, and MW-13, located south of the west end of the Site (inferred west AST area) were a mixture of GRO and DRO/MRO.

Since the 2012 soil samples were selected for laboratory analysis based on PID readings and other field observations, all eight samples were collected at similar depth intervals and most likely reflect the same zone of contamination. The presence of elevated TPH in this zone (>10 ft bgs) is consistent with the limited data collected from the same zone during the 2009 RI (e.g., DPB-02, -03, -05, -09, and -16). Only a single soil sample was collected from each location during the 2012 investigation so conclusions concerning the extent of TPH contamination are equivocal; however, given the volatile nature of the contamination in this zone, TPH concentrations likely mirror VOC concentrations as determined by heated headspace analysis techniques. A review of the 2009 subsurface soil data indicates that, below the impacted zone, TPH concentrations in soil

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appear to markedly decrease (Figure 10). Reported TPH concentrations at 40 ft bgs at MW-02 and 42 ft bgs at MW-03 are 7.2 mg/kg and 86.5 mg/kg, respectively. At similar depths in MW-01, MW-04, MW-05, and MW-06 (41.0 ft bgs, 43.5 ft bgs, 41 ft bgs, and 43.0 ft bgs respectively), TPH concentrations were reported as below the RL of 50 mg/kg. These data suggest that the vertical extent of TPH contamination is defined; however, how far the TPH contamination zone extends laterally away from the area of investigation remains undefined.

Benzene was not detected above RLs in any of the 2012 soil samples collected; however, benzene was detected in nine 2009 soil samples (Figure 11). Reported benzene concentrations in the 2009 samples ranged from 0.2 mg/kg at 35 ft bgs to 56 mg/kg at 10 ft bgs, both collected from MW-02. For the 2009 locations where multiple depths were sampled (MW-01–MW-06), benzene was not reported above the RLs at depth, suggesting that the vertical extent of benzene contamination is defined. In addition, 2012 data reported in samples collected at similar depths to 2009 samples (i.e., 20–35 ft bgs) indicate a decreasing trend of benzene concentrations laterally downgradient. For example, the 2009 reported benzene concentration of 15 mg/kg in a soil sample collected at 20 ft bgs at MW-02 shows a decrease downgradient at MW-14, where the 2012 soil sample collected at 19–23 ft bgs reported benzene concentrations below the RL. However, additional data are required to adequately determine the lateral extent of benzene in the impacted zone.

Although benzene (and toluene) was not detected in the 2012 soil samples, the presence of BTEX was reported in 6 of the 8 samples collected due to the presence of xylenes and ethylbenzene above RLs (Table 2). Detected 2012 BTEX concentrations ranged from 0.56 mg/kg at MW-11 (29–34 ft bgs) to 35 mg/kg at MW-10 (24–29 ft bgs) (Figure 12). These 2012 reported concentrations for BTEX are less than the BTEX concentrations observed at similar depths during the 2009 RI, which reported elevated BTEX concentrations (>50 mg/kg) at MW-02 and MW-03 of 249 mg/kg at 20 ft bgs and 56 mg/kg at 35 ft bgs, respectively. These data may indicate a decreasing trend laterally of BTEX in the zone of contamination; however, a definitive assessment of the lateral extent of BTEX in the impacted zone cannot be performed due to a limited dataset. A review of the 2009 subsurface soil data indicates that, below the impacted zone, BTEX was not detected above RLs (MW-01–MW-06). These data suggest that the vertical extent of BTEX contamination in soil is defined.

Analytical results obtained from the 2102 soil samples collected at MW-07–MW-14, indicate chloride is also present in the deep soils and at depth (TD of 50 ft bgs). The presence of chloride was reported in six of eight soil samples with detected concentrations ranging from 31 mg/kg at MW-07 to 570 mg/kg at MW-08 (Figure 13); chloride was not detected in samples collected from MW-10 and MW-14. These 2012 reported concentrations are in the range of chloride



concentrations reported in the 2009 samples, suggesting that the lateral extent of contamination remains undefined. In addition, a review of the 2009 subsurface soil data indicates that chloride concentrations generally increase with depth at all locations (MW-01–MW-06), with the greatest chloride concentrations reported in samples collected at or near TD. These data suggest that the vertical extent of chloride contamination remains undefined.

### 3.3 Distribution of Contaminants in Groundwater

Previous investigations identified VOCs (particularly benzene), SVOCs, and chloride as COCs in Site groundwater requiring additional investigation. As a result, a total of twelve samples were collected from Site monitoring wells MW-01 and MW-04–MW-14 and submitted for the offsite analysis of VOCs, EDB, dissolved chloride, and TDS (Section 2.3). Groundwater was not sampled at MW-02 and MW-03 due to the presence of LNAPL (see section below). A summary of the 2009–2012 analytical chemistry results for groundwater encountered at the area of investigation is provided in Table 5. The spatial distribution of contaminants in groundwater is presented on Figure 14.

Analytical results indicate that concentrations of benzene and chloride in excess of NMWQCC standards (10  $\mu$ g/L and 250 mg/L, respectively) are present in the groundwater across the Site. EDC was also detected at concentrations exceeding the NMWQCC standard of 10  $\mu$ g/L in two of the groundwater samples (34  $\mu$ g/L at MW-11 and 55  $\mu$ g/L at MW-12). EDB was not detected above the RL in any of the 2012 samples.

Detected benzene concentrations in groundwater (above the RL) ranged from 1.4 µg/L at MW-04, the most upgradient well, to 2,900 µg/L at MW-14, the farthest downgradient well, and averaged 867 µg/L. Overall, the 2012 reported benzene concentrations appear to increase downgradient (northwest to southeast), and benzene is present in the most downgradient wells MW-12 and MW-14 at concentrations an order of magnitude greater than in the wells MW-11 and MW-10, located immediately upgradient (1,900–2,900 µg/L versus 40–65 µg/L). Benzene concentrations are markedly less in perimeter wells MW-07 and MW-08, located on the northeast and northwest ends of the property, respectively; however, elevated concentrations of benzene are still observed at MW-06 and MW-09, perimeter wells located along the southwestern end of the property. These observations indicate that the extent of benzene contamination in groundwater appears relatively bounded to the north, northeast, and northwest, but remains largely undefined to the southwest and downgradient (southeast) of the area of investigation.

The ratio of benzene concentrations to BTEX concentrations was high in all the 2012 groundwater samples, ranging from 45% at MW-01 to 100% at MW-04, MW-06, and MW-13, and averaged 73% (Figure 14 and Table 5). High benzene: BTEX concentrations at the source



typically indicate a gas condensate contaminant source; however, the presence of EDC, a lead scavenger additive, suggests a motor fuel or avgas type release. It should be noted that no EDB was detected at concentrations above the laboratory RL of 0.010 ug/L.

Chloride contamination in the groundwater appears pervasive. Reported chloride concentrations in Site groundwater ranged from 1,700 mg/L at MW-07 to 8,600 mg/L at MW-13 and averaged 5,100 mg/L. Based on these observations, the extent of chloride contamination remains undefined.

## 3.4 Distribution of LNAPL

During the 2012 investigation, LNAPL was observed on the water table at wells MW-02 and MW-03 at a thickness of 0.52 ft and 1.8 ft, respectively. Since installation in 2009, LNAPL has been observed at MW-03 during four out of five sampling events, and ranged in measurable thickness from 0.33 ft (January 2011) to 1.80 ft (May 2012) (Table 4). The 2012 investigation is the first time LNAPL has been observed at MW-02.

LNAPL has also been observed at other monitoring wells located in the near vicinity of the Site, specifically, at Rice monitoring well MW-2, located immediately downgradient of MW-03 and MW-02 (Jim Griswold Personal Communication, June 2012). In addition, LNAPL remediation is reportedly ongoing at the Versado Plant, located immediately north of the Site. These data suggest that LNAPL contamination is prevalent in the area and that an LNAPL plume(s) appears to be present beneath the southeastern edge of the Site and extends offsite (downgradient) towards the southeast (in the direction of groundwater flow).

As discussed above, elevated benzene concentrations in groundwater are most prominent in the most downgradient wells, MW-12 and MW-14, and secondly, in wells MW-06 and MW-09. Based on the current groundwater flow direction and gradient calculated for the area of investigation (Figure 3), wells MW-12 and MW-14 are directly downgradient of MW-02, MW-03, and Rice well MW-2. It is probable that these elevated benzene concentrations reflect the fringe effects of LNAPL plume migration offsite to the southeast; therefore, it is anticipated that these wells will show evidence of product over time.

Elevated benzene concentrations in groundwater samples collected at MW-06, combined with the evidence of a highly contaminated area observed in shallow soil immediately north of the pit (e.g., DPB-07), might also indicate another LNAPL release occurred towards the north/west end of the Site. Therefore, a second LNAPL plume may be present beneath the southwest section of the Site and extend offsite (downgradient) towards the southeast (in the direction of groundwater flow and MW-14). Regardless of what the exact geometry(ies) of the LNAPL plume(s) is, the



presence of LNAPL in the area of investigation is definitive, and elevated benzene concentrations reported at MW-09 likely reflect fringe effects, bounding the extent of the LNAPL plume to the southwest.

# 3.5 LNAPL Baildown/Recovery Test Analysis

Calculations associated with the analysis of the LNAPL baildown/recovery test are provided in Appendix H. As indicated in Appendix H, LNAPL recovered to 60% of its original thickness within the first nine hours of the test and recovered to 100% of its original thickness during the approximately 80-hour baildown/recovery test (see Table H-1 and Figure H-2 in Appendix H). As illustrated, the LNAPL recovery rate is at its greatest during the first 30 minutes following the removal of the LNAPL (see Figure H-3). It is important to note that MW-03 has not been developed due to the presence of LNAPL, which may impact the baildown/recovery test results.

Two baildown test analyses were completed with the Site data collected. The first analysis utilized baildown test results to determine LNAPL recovery rates for potential future LNAPL recovery activities. The method used to determine the LNAPL recovery rate is described in the EPA document "How to Effectively Recover Free Product at Leaking Underground Storage Tank Sites" (EPA, 1996). The method first calculates the 80% recovery LNAPL thickness. The next step extrapolates the time it would take to recover to 80% using Site baildown test data. Using this time and the volume of LNAPL per foot of well screen, the average LNAPL recovery rate to 80% recovery can be calculated. The calculation is provided in Appendix H.

Using the Site data, 80% recovery is equivalent to an LNAPL thickness of 1.46 ft. Looking at Site data in Table H-1, the time it would take to return to 80% LNAPL recovery was interpolated to be 1,335 minutes. Using this information, the average LNAPL recovery rate to 80% recovery is 1.02 gallons/day.

The second analysis utilized baildown test results to calculate an LNAPL transmissivity. The baildown test data was analyzed with the Bouwer-Rice method (1976) for an unconfined aquifer using the commercial software package AQTESOLV® (HydroSOLVE, 2009) to estimate *K* values. The Bouwer-Rice method is applicable to LNAPL baildown tests if a correction factor is applied to determine the transmissivity of the LNAPL system. An analytical solution was fitted to data that represented most of the observed head change while avoiding early time changes attributed to the sand pack and late time changes that spanned small head changes. An LNAPL correction factor was applied to the estimated K value to account for the specific gravity of the LNAPL (Huntley, 2000; ASTM, 2011). A correction factor of 4.55 was calculated using an average density of gasoline and diesel fuel (Charbeneau et al., 1999).



Using Site data and applying the LNAPL correction factor, the Site LNAPL hydraulic conductivity and transmissivity is equal  $0.38~\rm ft/day~(1.3x10^{-4}~\rm cm/sec)$  to  $0.70~\rm ft^2/day~(7.4x10^{-3}~\rm cm^2/sec)$ , respectively. The AQTESOLV report and associated calculations are provided in Appendix H.

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# 4.0 CONCLUSIONS AND RECOMMENDATIONS

The 2012 investigation of the hydrocarbon release at the Enersource Facility has provided the following insights into the nature, extent, and magnitude of contamination:

- The contaminants of concern in soil and groundwater include BTEX, EDC, TPH (GRO, DRO, and MRO), naphthalene (including 1- and 2-methylnaphthalene), and chloride.
- Contamination of soil in the interval between 0 and 10 ft bgs extends to the south of the Site to adjacent properties (Figures 4, 6, 7, 8 and 9). The contamination appears to emanate from the former pit and/or former pipelines located in the west and southwest portion of the Site; an area located in the vicinity of MW-02 in the south central portion of the Site; and the areas in the eastern portion of the Site that contained numerous ASTs, and an area believed to be used for product loading. Soil screening results from shallow soils indicate that the contamination is partially defined to the south; however the following uncertainties exist:
  - Extent of contamination in the north central area of Site, including areas offsite
  - Extent of contamination southwest of the pit
  - Extent of contamination between the southern edge of pit and MW-09
  - Extent of contamination between DPB-27 and MW-14
  - Extent of contamination to the east and southeast

Once a regulatory standard is promulgated, actionable soil contamination may be evaluated

- Contamination of soil below 6 ft bgs coincides with the extent of groundwater contamination and appears to be more pervasive in the central and eastern areas of the Site, where the caliche is less developed; however, more evaluation of this possible correlation is needed.
- Groundwater elevations have dropped between 3 to over 4 feet in monitoring wells MW-1–MW-6 since January 2011.
- Mobile LNAPL is present in the southeastern portion of the Site (Figure 14). The limits of the LNAPL plume are uncertain to the east. Although the western and southern limits of the LNAPL plume are drawn with some degree of certainty, given the long period of time that occurred before LNAPL appeared in MW-02 and the high dissolved-phase concentrations of benzene that exist to the south and west, these limits may change with time as more data are collected from nearby monitoring wells.



- The nature of the LNAPL needs to be determined and the potential for a source located east of the Enersource Facility investigated.
- The extent of groundwater contamination appears to be, for the most part, defined to the north, northwest, and northeast, and possibly to the southwest. It is not defined in other directions. The existence of benzene at concentrations > 1,000 µg/L in MW-09, 12, and 14 suggests that LNAPL is present nearby. The limits of EDC, a highly mobile chemical, are undefined to the southeast, and the highest concentration of EDC measured to date is in the farthest downgradient well.
- The analysis of the baildown/recovery test using the EPA method indicated that the average recovery rate to 80% recovery is 1.02 gallons/day. This recovery rate suggests that LNAPL recovery by skimming is not a viable remediation option. The analysis of the baildown/recovery test using the Bouwer-Rice method results in an LNAPL transmissivity of 0.70 ft²/day. LNAPL transmissivities are a good performance metric. It is reported that if LNAPL transmissivities are below 0.8 ft²/day, then a pneumatic or hydraulic LNAPL recovery system is no longer an effective remediation technology (ITRC, 2009).

# Based on these results, INTERA recommends the following:

- Develop cross sections illustrating the relationship between stratigraphy and the extent of soil contamination.
- Continue groundwater monitoring.
- Install additional wells east, south, and southeast of the current monitoring well network.
- Evaluate the efficacy of a vacuum enhanced LNAPL recovery system and/or SVE system to remove LNAPL at the Site and adjoining properties.



#### 5.0 REFERENCES

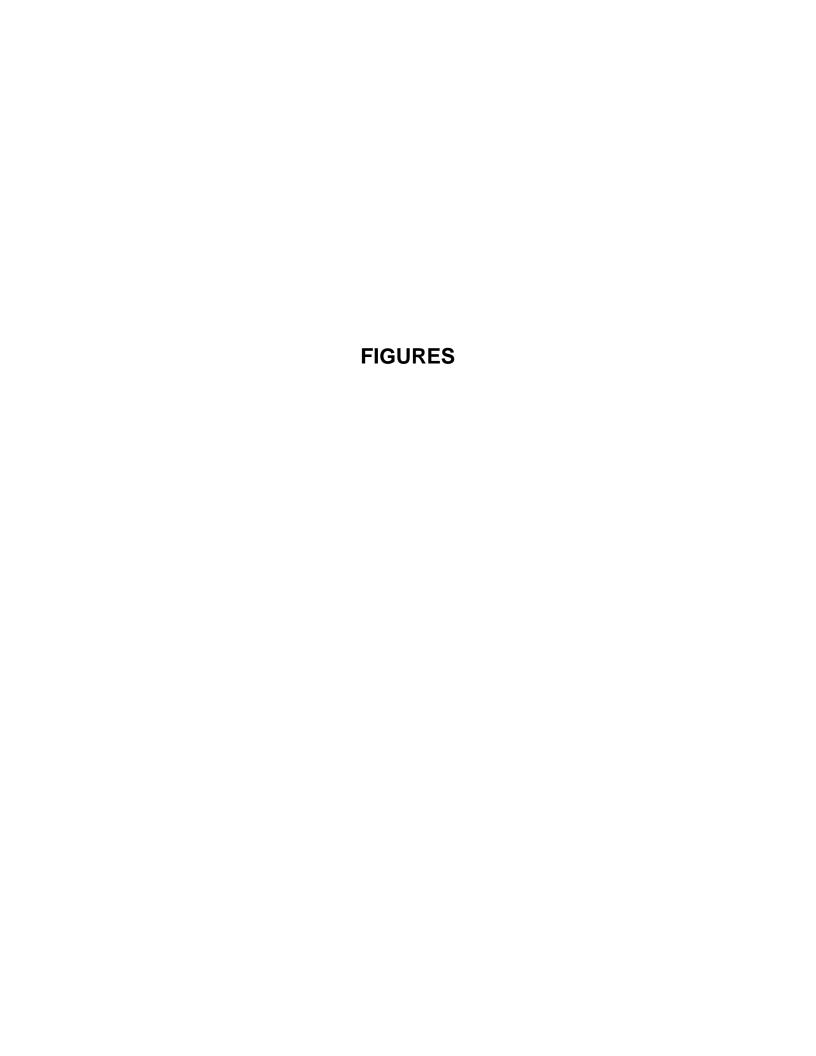
- ASTM, 2011. Standard Guide for Estimation of LNAPL Transmissivity. E2856-11.
- Bouwer, H. and R.C. Rice, 1976, A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, Water Resources Research, 12 (1976):423-28.
- Charbeneau, R.J., R.T. Johns, L.W. Lake, and M.J. McAdams, III. 1999. Free-Product Recovery of Petroleum Hydrocarbon Liquids. API Publication No. 4682.
- Griswold, J. 2012. Personal Communication. June.
- Huntley, David. 2000. Analytic Determination of Hydrocarbon Transmissivity from Baildown Tests. Ground Water, vo. 38, No.1, pp. 46-52.
- HydroSOLVE, 2009, AQTESOLVE for Windows Professional, version 4.50: Reston, Virginia, HydroSOLVE Inc.
- INTERA, 2007. "Phase I and II Remediation, Former Enersource Facility, Monument, Lea County, New Mexico." Prepared for New Mexico Energy, Minerals and Natural Resources Department, New Mexico Oil Conservation Division. June 29, 2007.
- ———. 2009. "Remedial Investigation and Removal Action Report, Former Enersource Facility, Monument, Lea County, New Mexico." Prepared for New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division. December 4, 2009.
- ———. 2011. January 2011 Groundwater Monitoring Report, Former Enersource Facility, Monument, Lea County, New Mexico. Prepared for New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division. March 9, 2011.
- ———. 2012. "Work Plan and Cost Estimate for Additional Site Investigation, Former Enersource Facility, Monument, Lea County, New Mexico." Submitted to State of New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division. February 24, 2012.
- ITRC, 2009. Evaluating LNAPL Remedial Technologies for Achieving Project Goals.

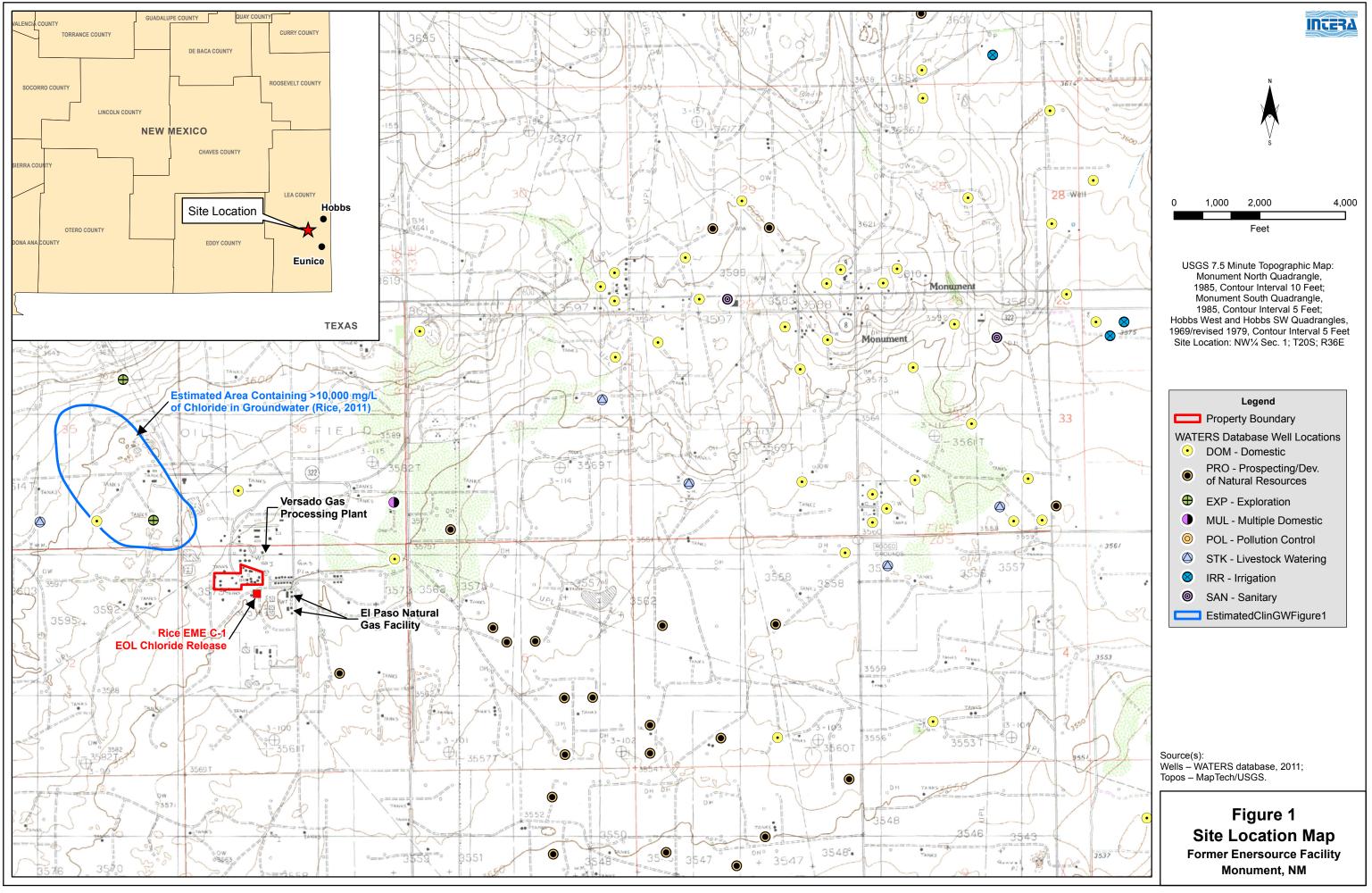
  December.
- Leedshill-Herkenhoff, Inc., John Shomaker & Associates, Inc. and Montgomery & Andrews, P.A., 2000. "Lea County Regional Water Plan." Prepared for the Lea County Water Users Association. December 7.

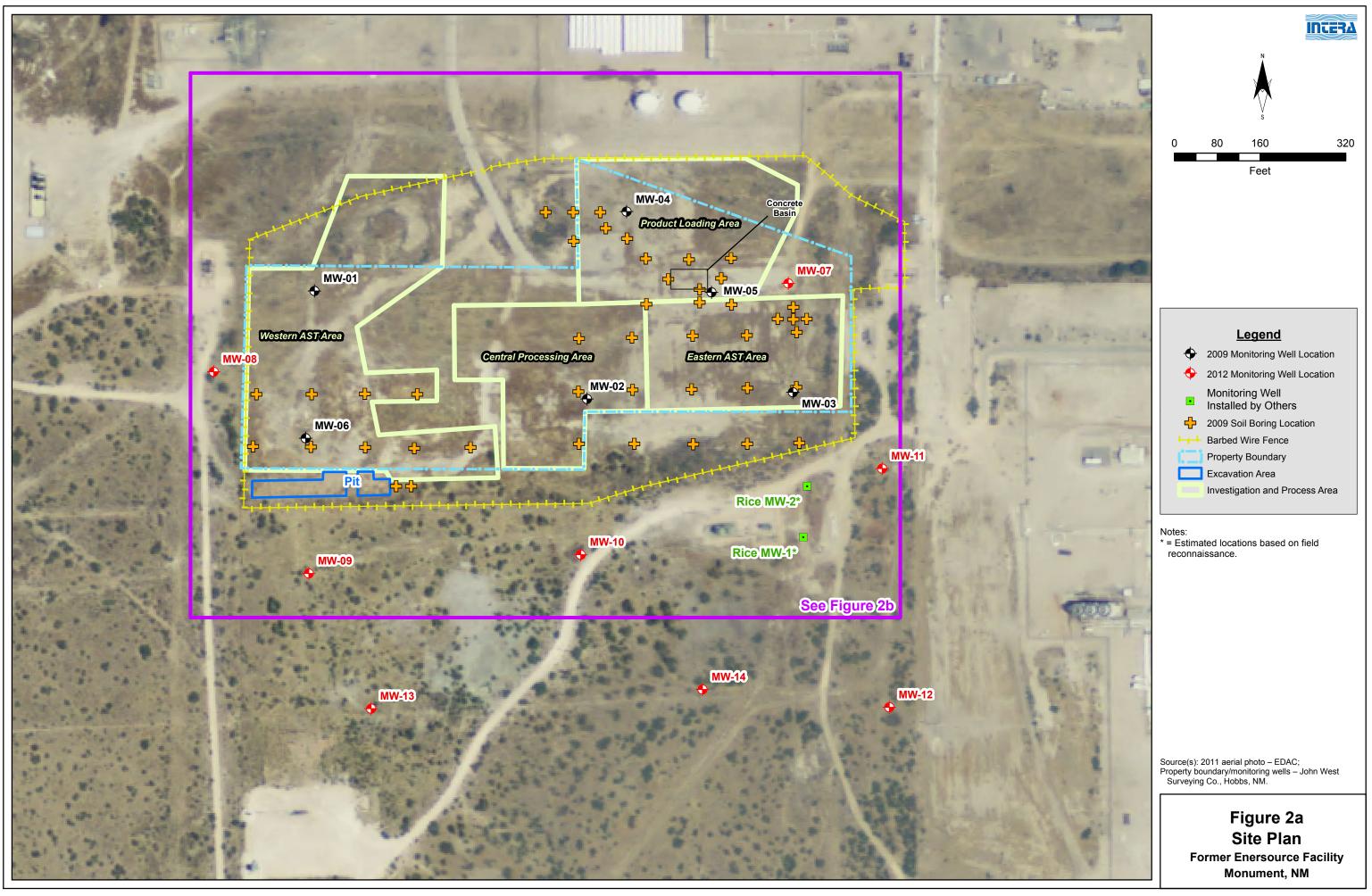


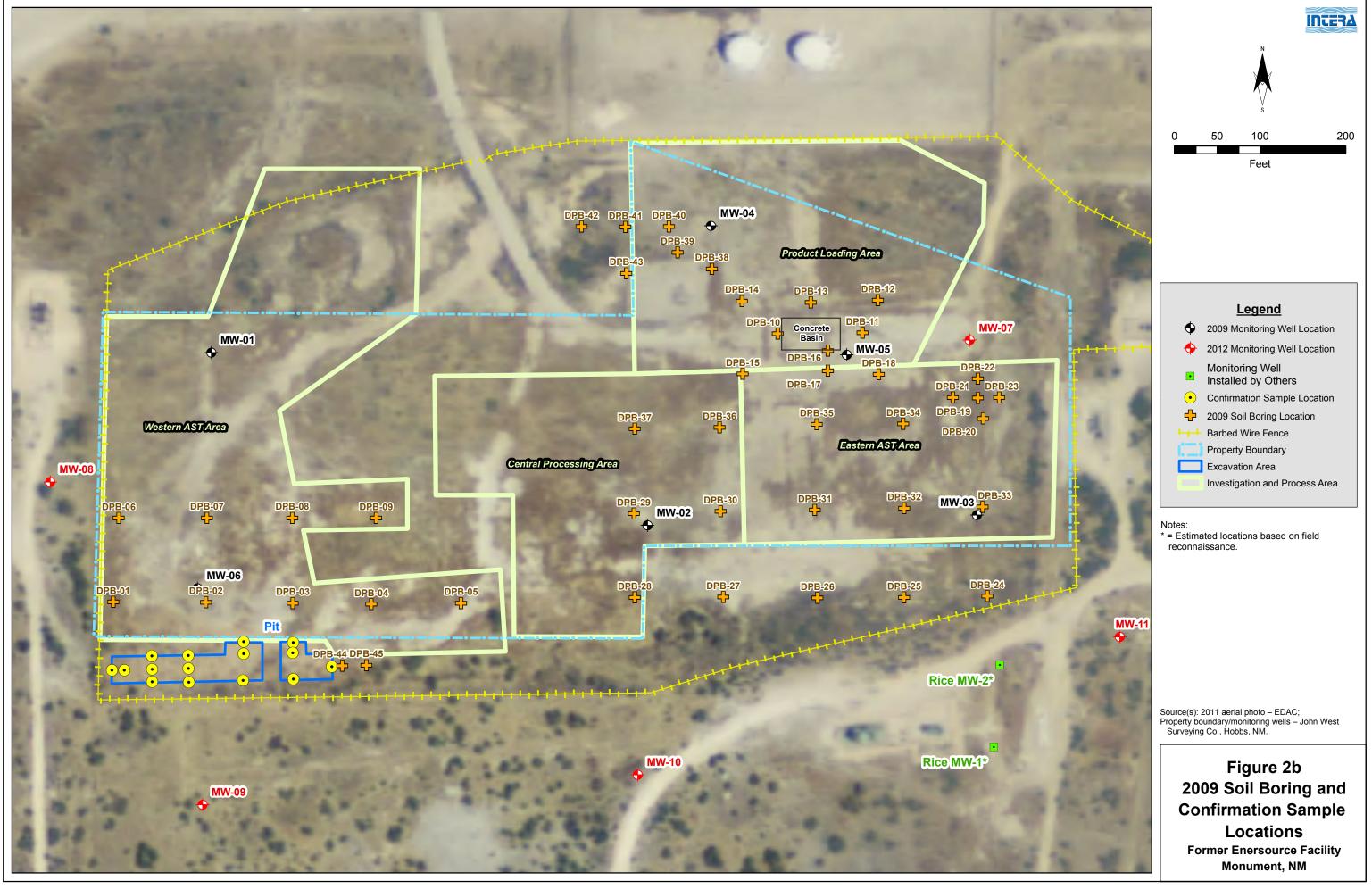
- New Mexico Office of the State Engineer (OSE), 2012. WATERS Database, New Mexico Water Rights Reporting System, <a href="http://nmwrrs.ose.state.nm.us/nmwrrs/index.html">http://nmwrrs.ose.state.nm.us/nmwrrs/index.html</a> (accessed June 28, 2012).
- New Mexico Office of the State Engineer/Interstate Stream Commission (OSE/ISC), 2011. ose\_pod, Geospatial\_Data\_Presentation\_Form: vector digital data. July 7. Online\_Linkage: \\WRXP0700\C\$\Projects\_CN\WATERS\_queries\2011\_June \\GIS\_layers\ose\_pod\_current.mdb.
- Rice Environmental Consulting & Safety (RECS), 2011. ICP Report, Rice Operating Company EME SWD System, EME C-1 EOL (1R427-320): UL/C sec. 1 T20S R36E. Report submitted to Mr. Edward Hansen, New Mexico Energy, Minerals & Natural Resources Division, Oil Conservation Division, Environmental Bureau. February 18.
- U.S. Environmental Protection Agency (EPA), 1996. How to Effectively Recover Free Product at Leaking Underground Storage Tank Sites: A Guide for State Regulators. September.
- U.S. Geological Survey (USGS), 1985a. Monument North Quadrangle, New Mexico—Lea Co. [Map]. 1:24,000. 7.5-Minute Series. Washington, D.C.: USGS, 1985.
- ———. 1985b. Monument South Quadrangle, New Mexico—Lea Co. [Map]. 1:24,000. 7.5-Minute Series. Washington, D.C.: USGS, 1985.
- Wrangham, Cal, 2006. Personal communication. Targa Resources (current operator of the Versado Plant).

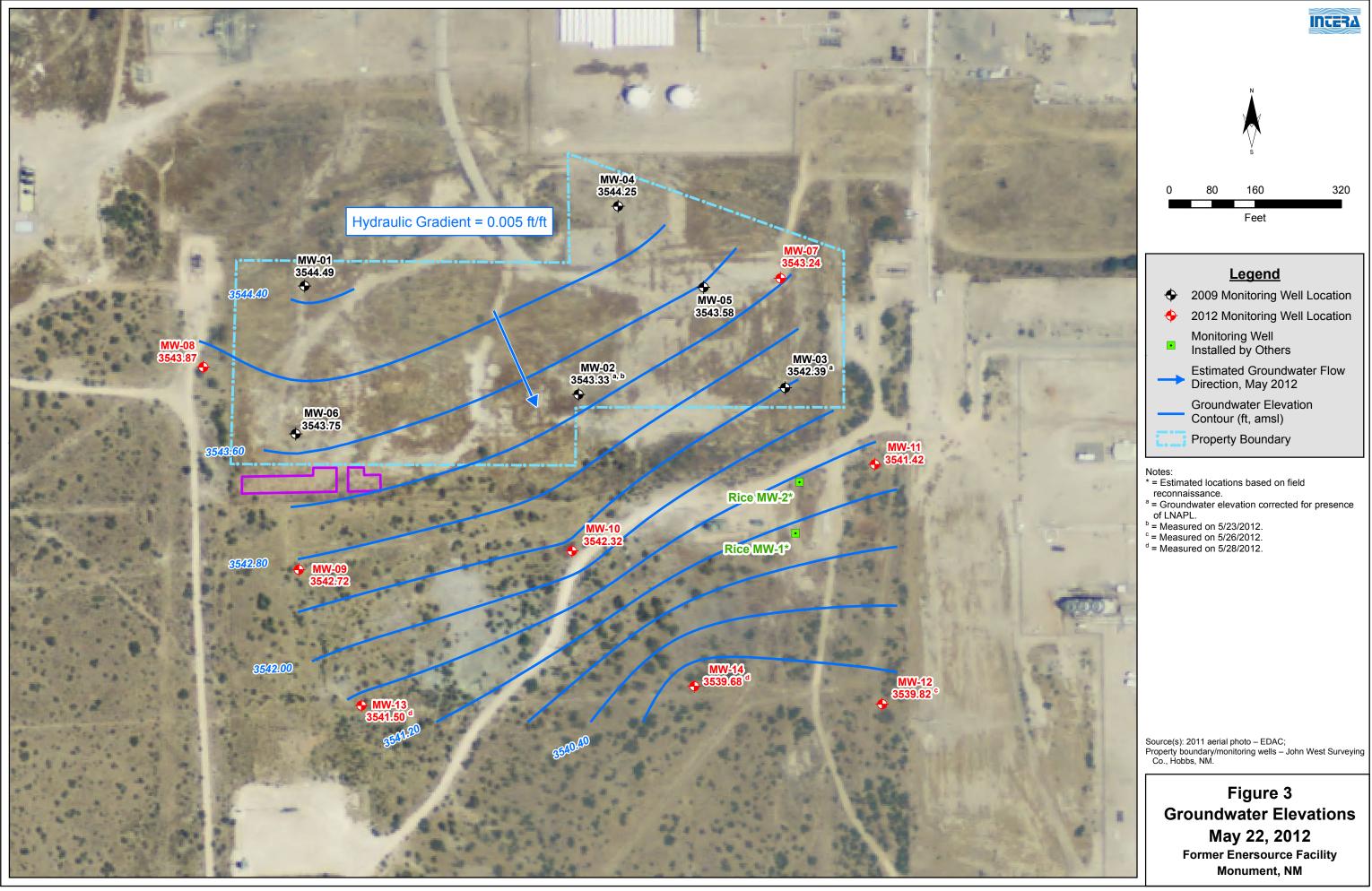
June 29, 2012

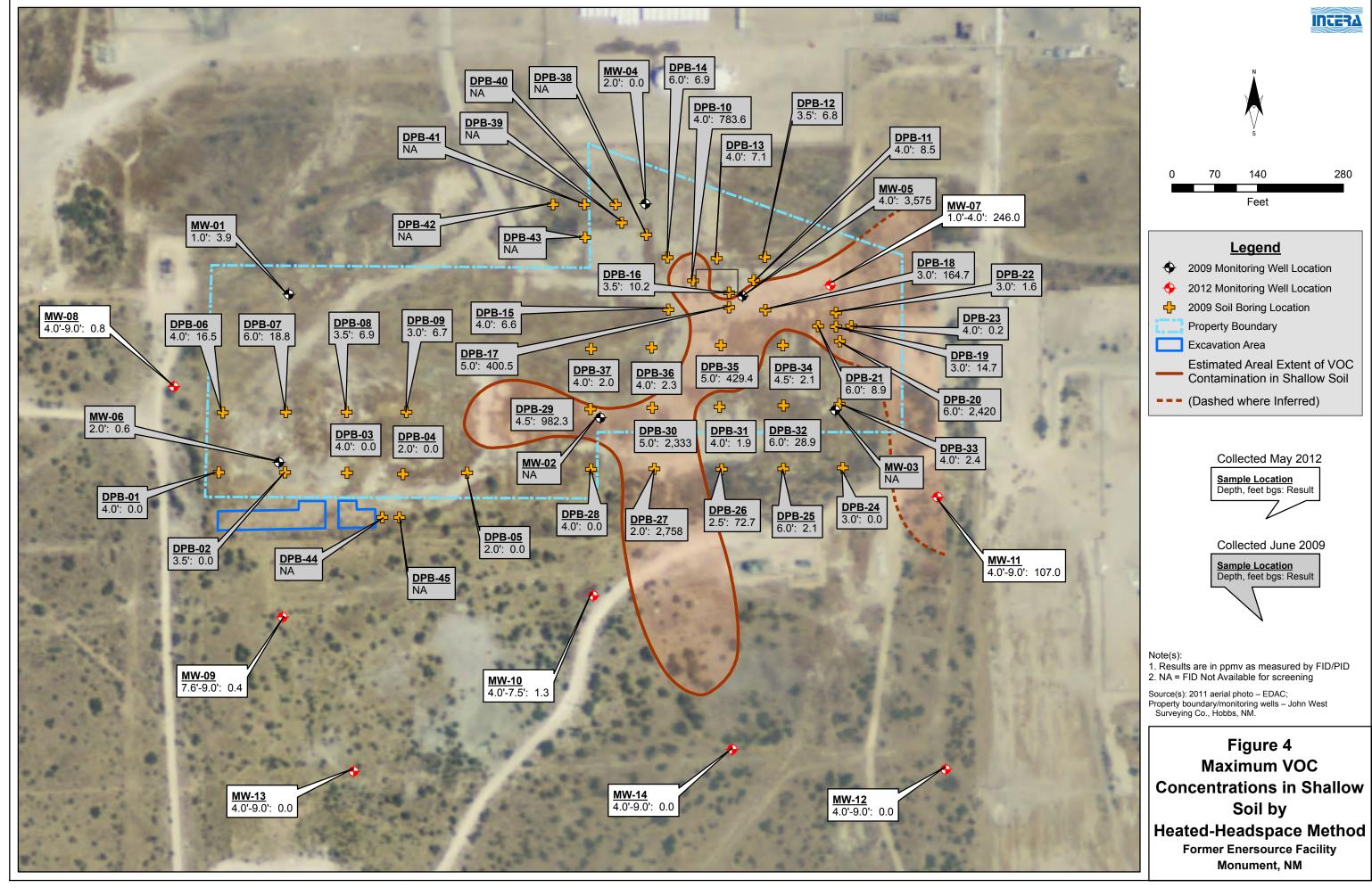


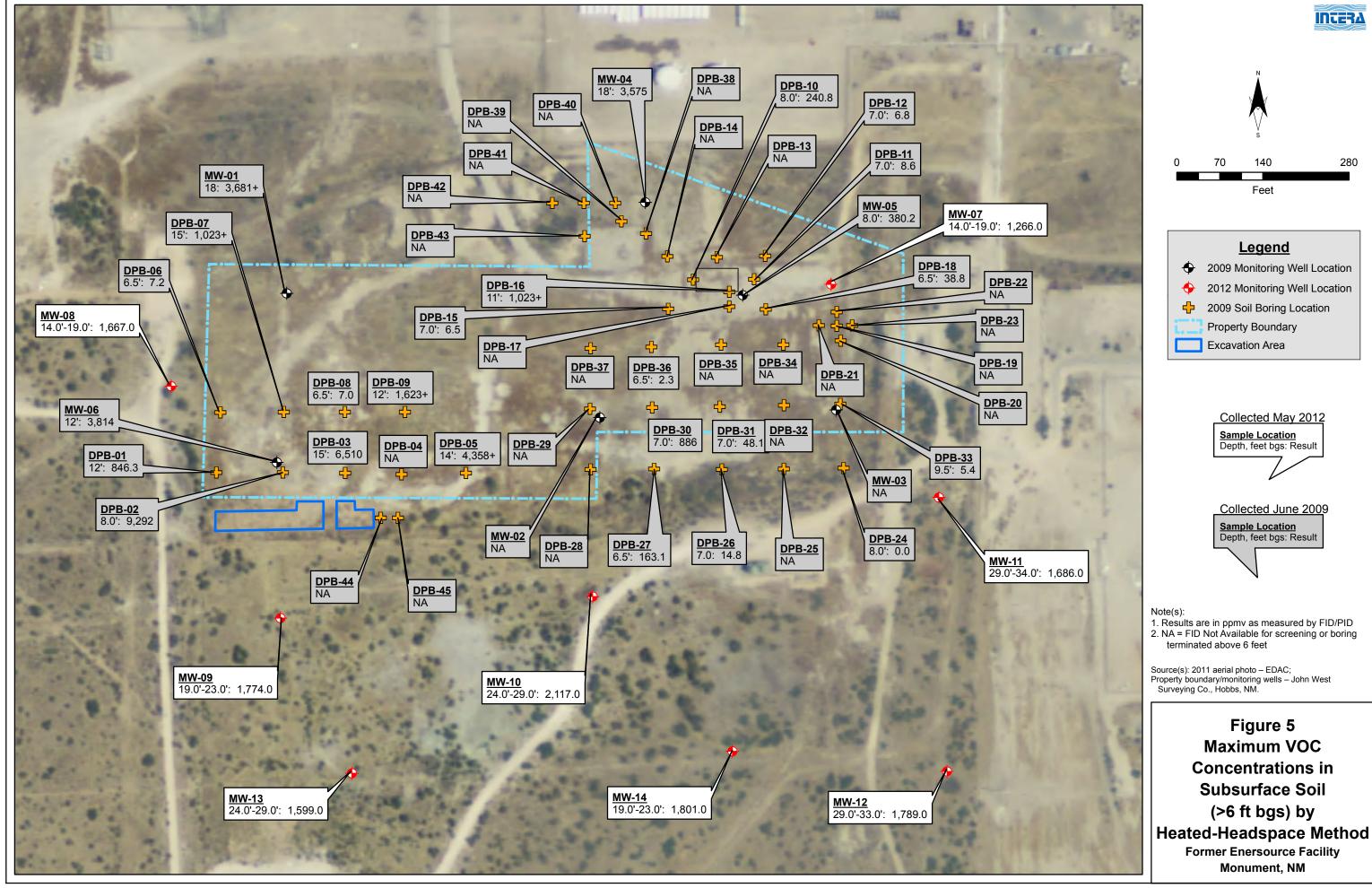


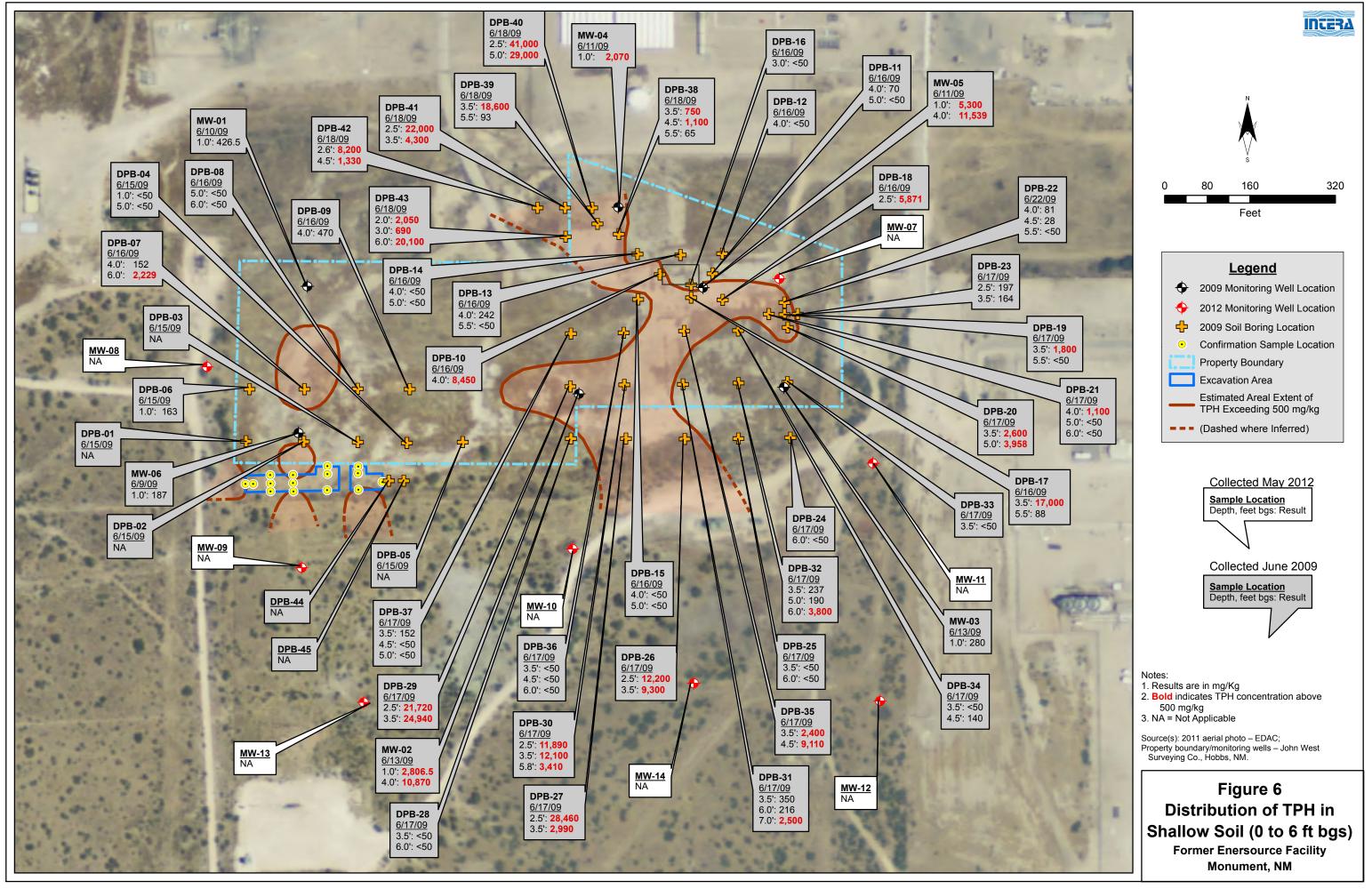


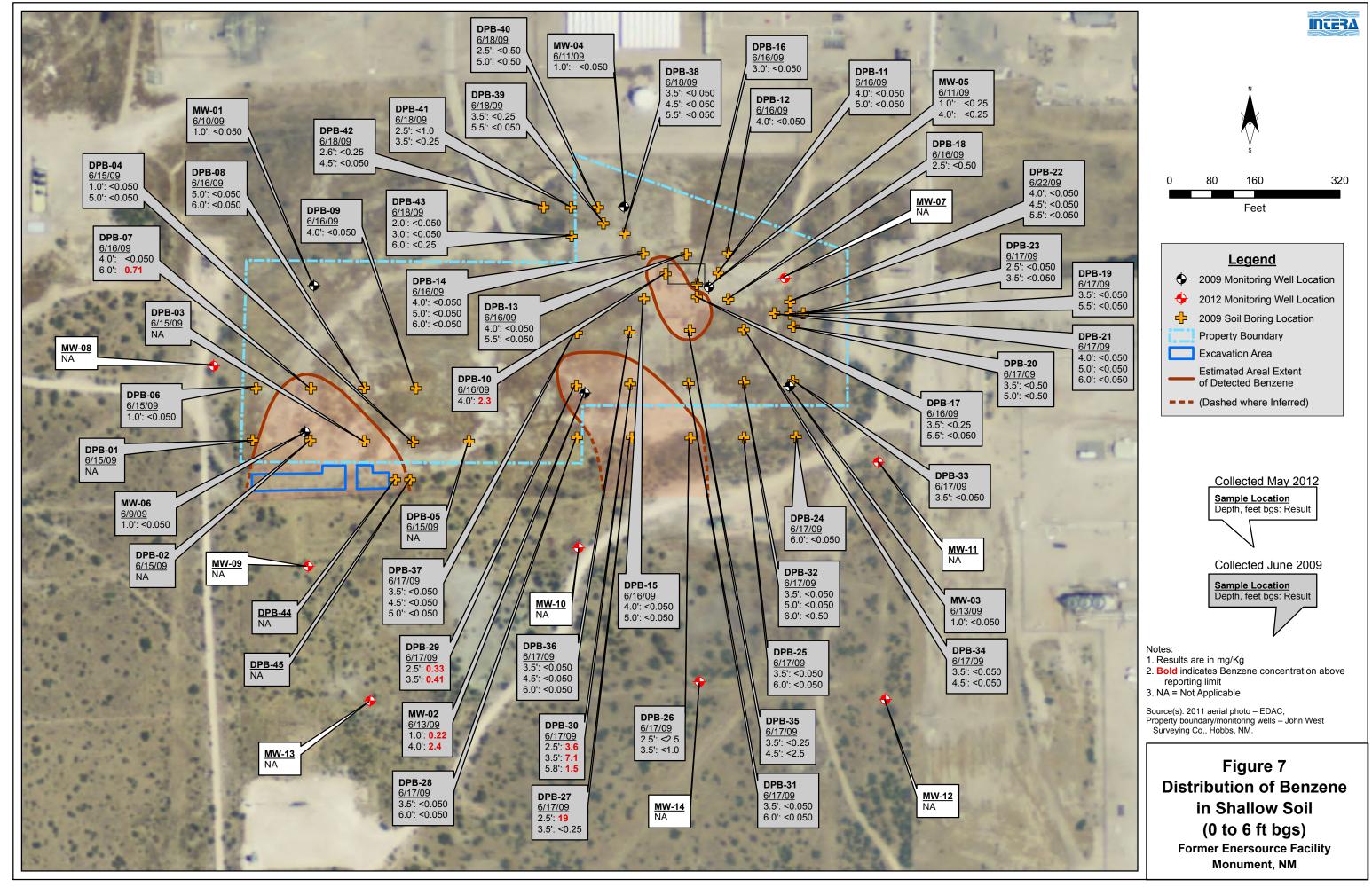


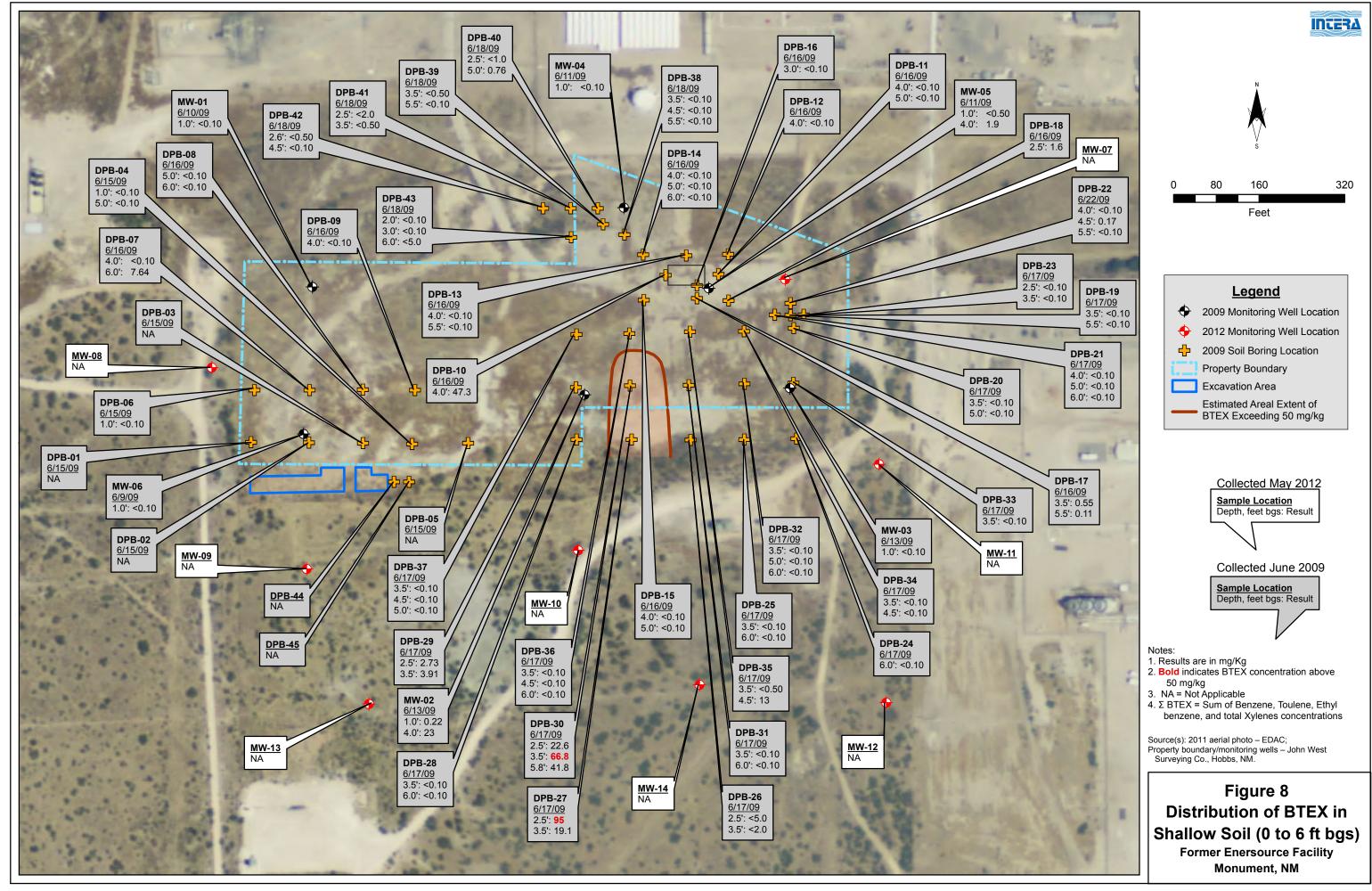


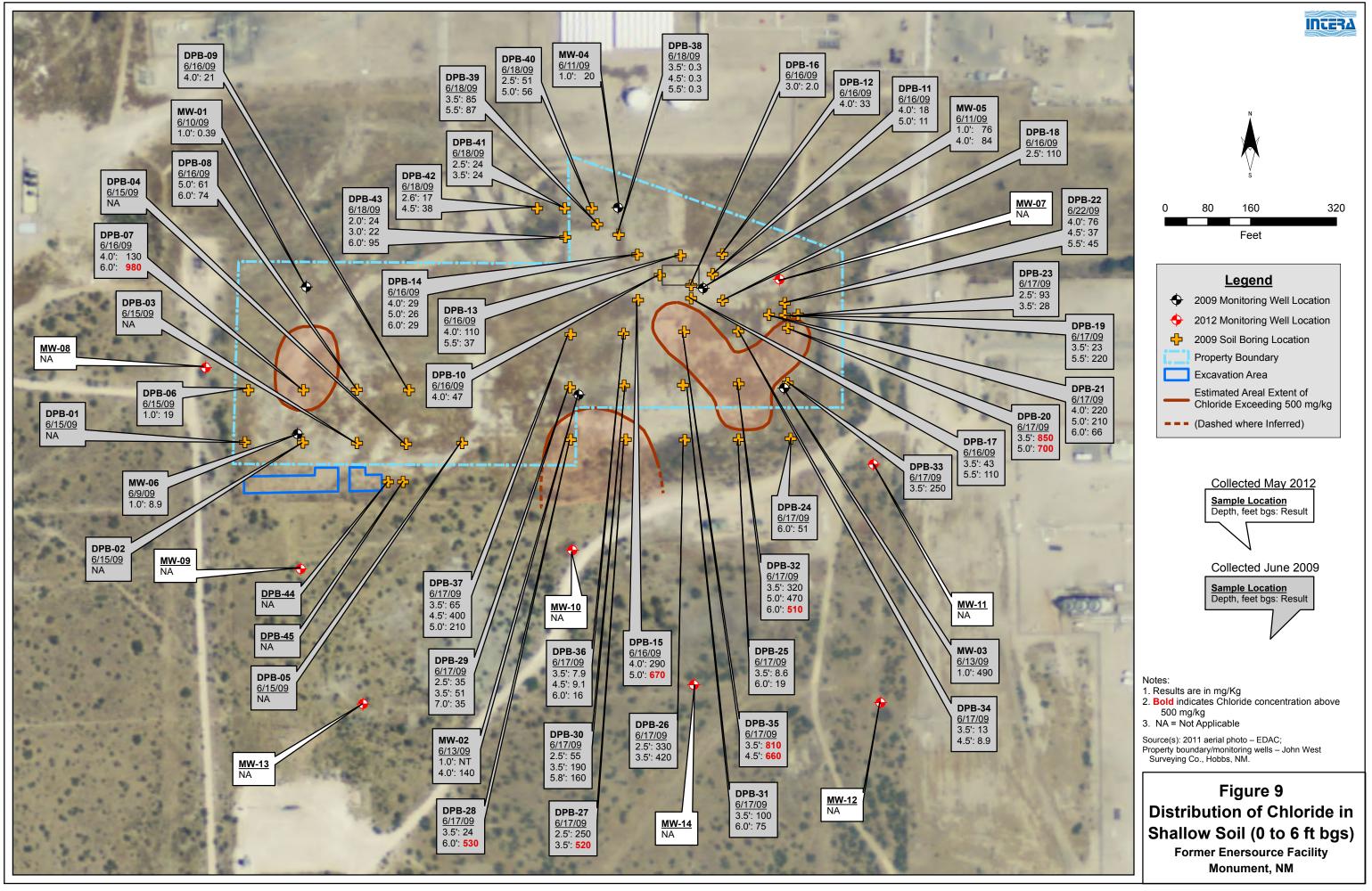


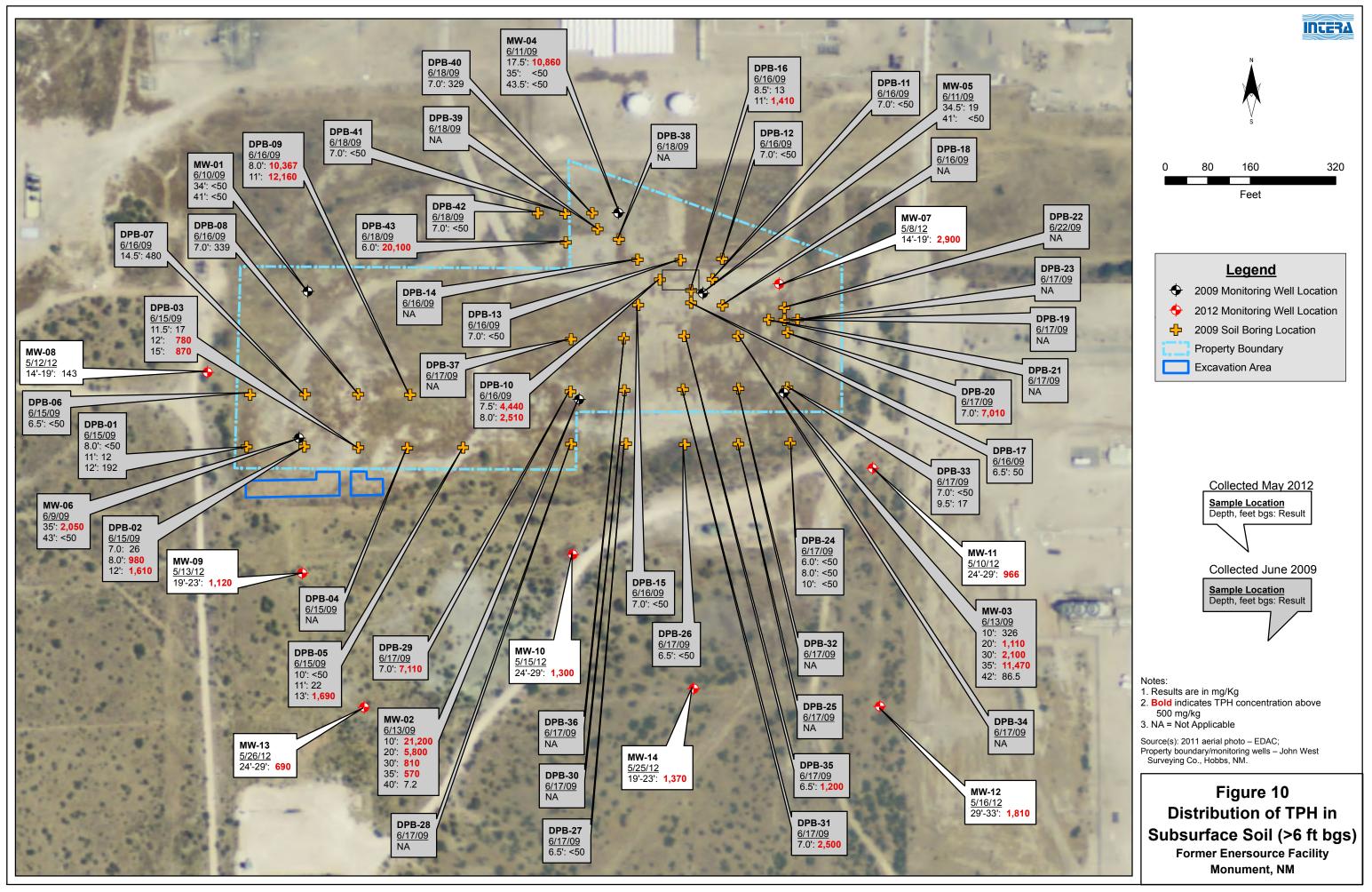


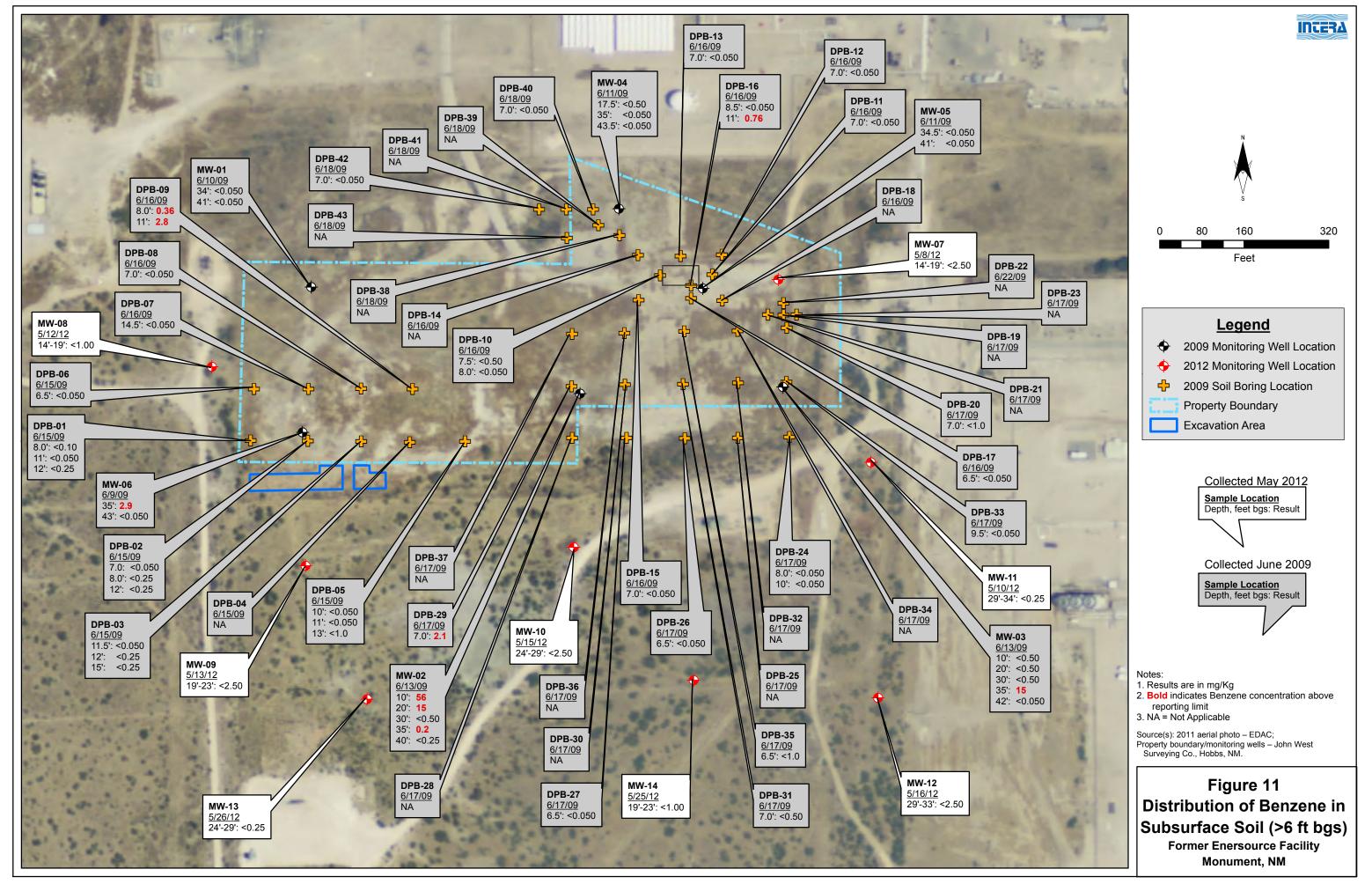


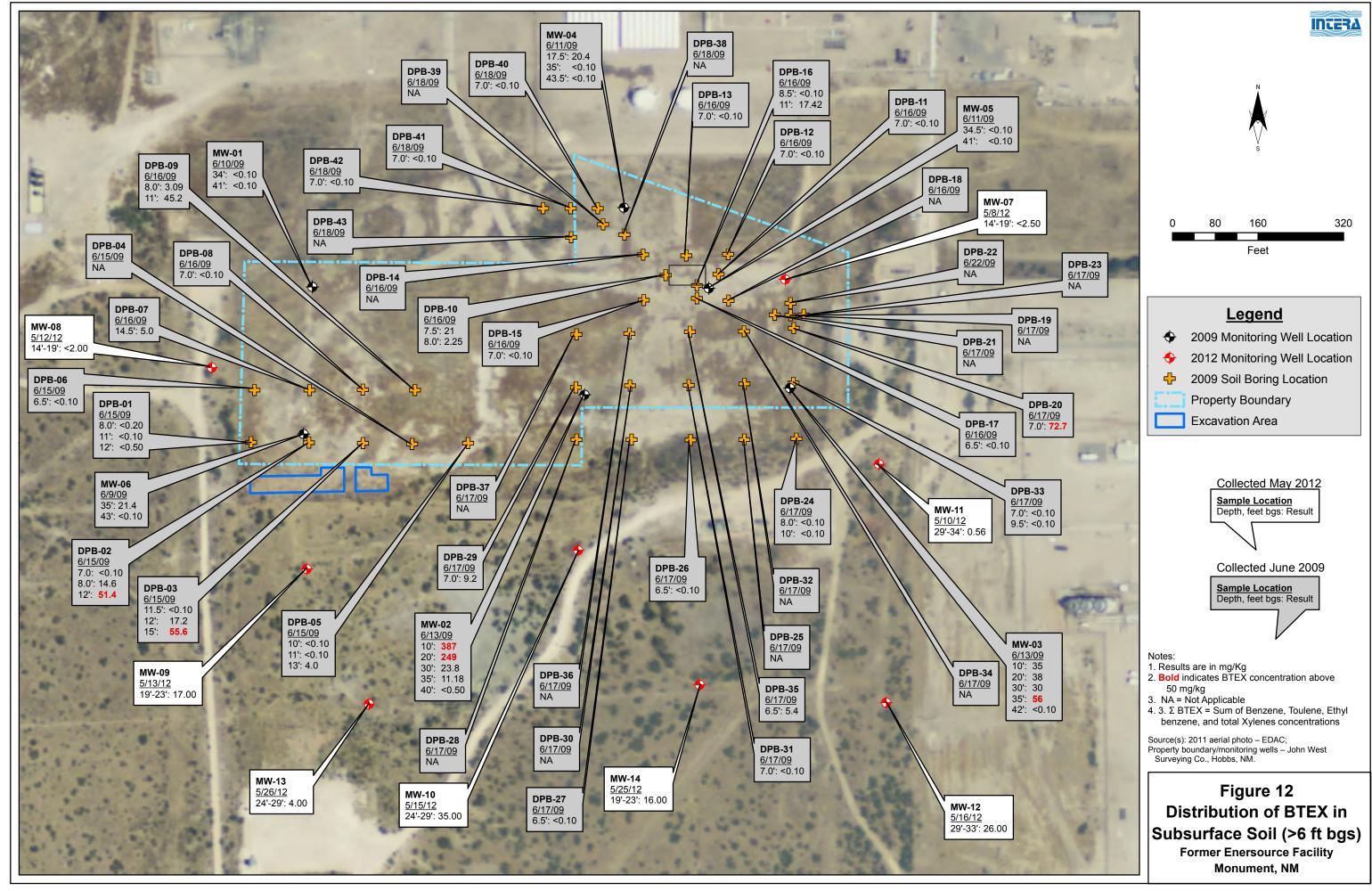


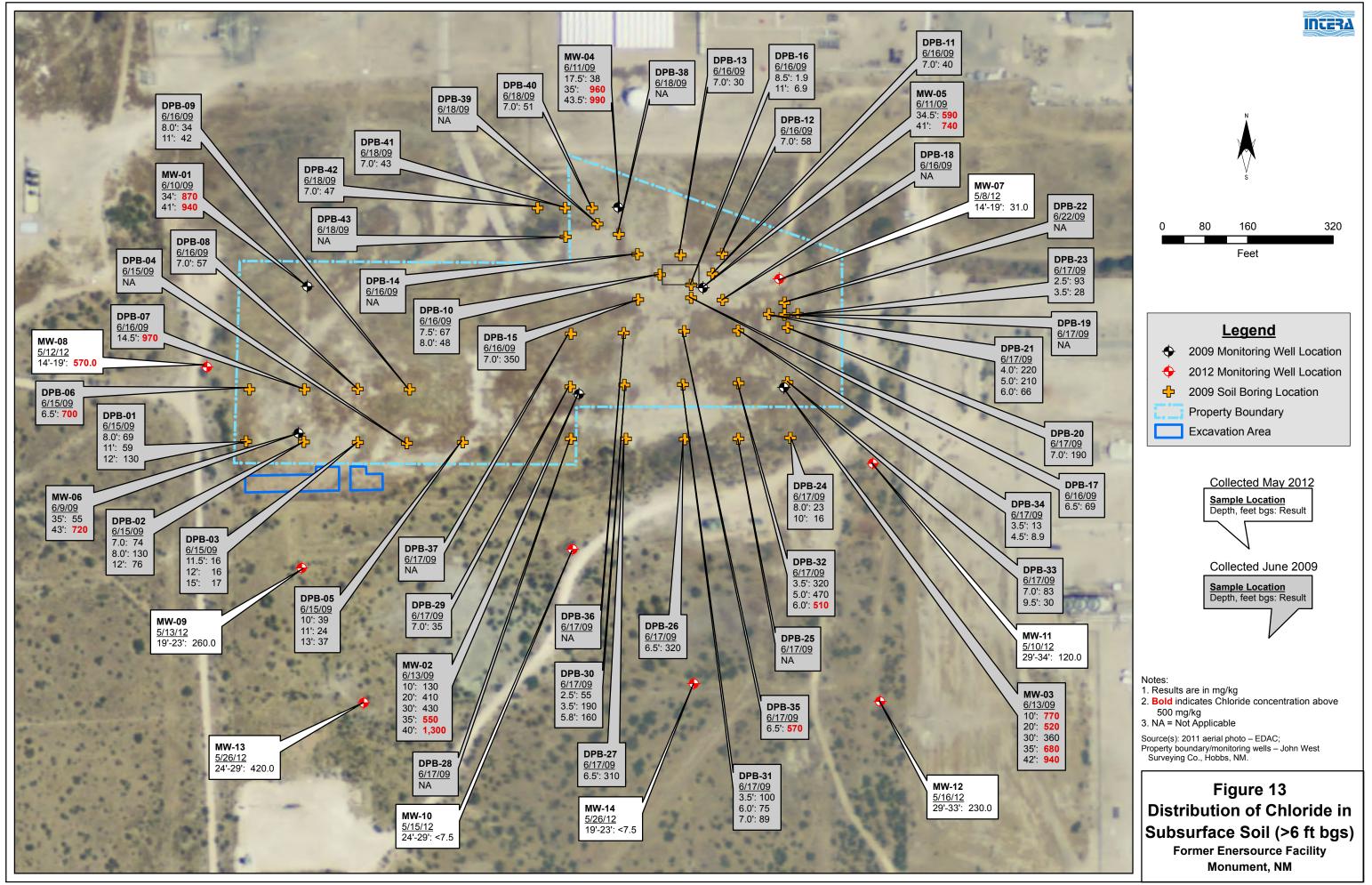


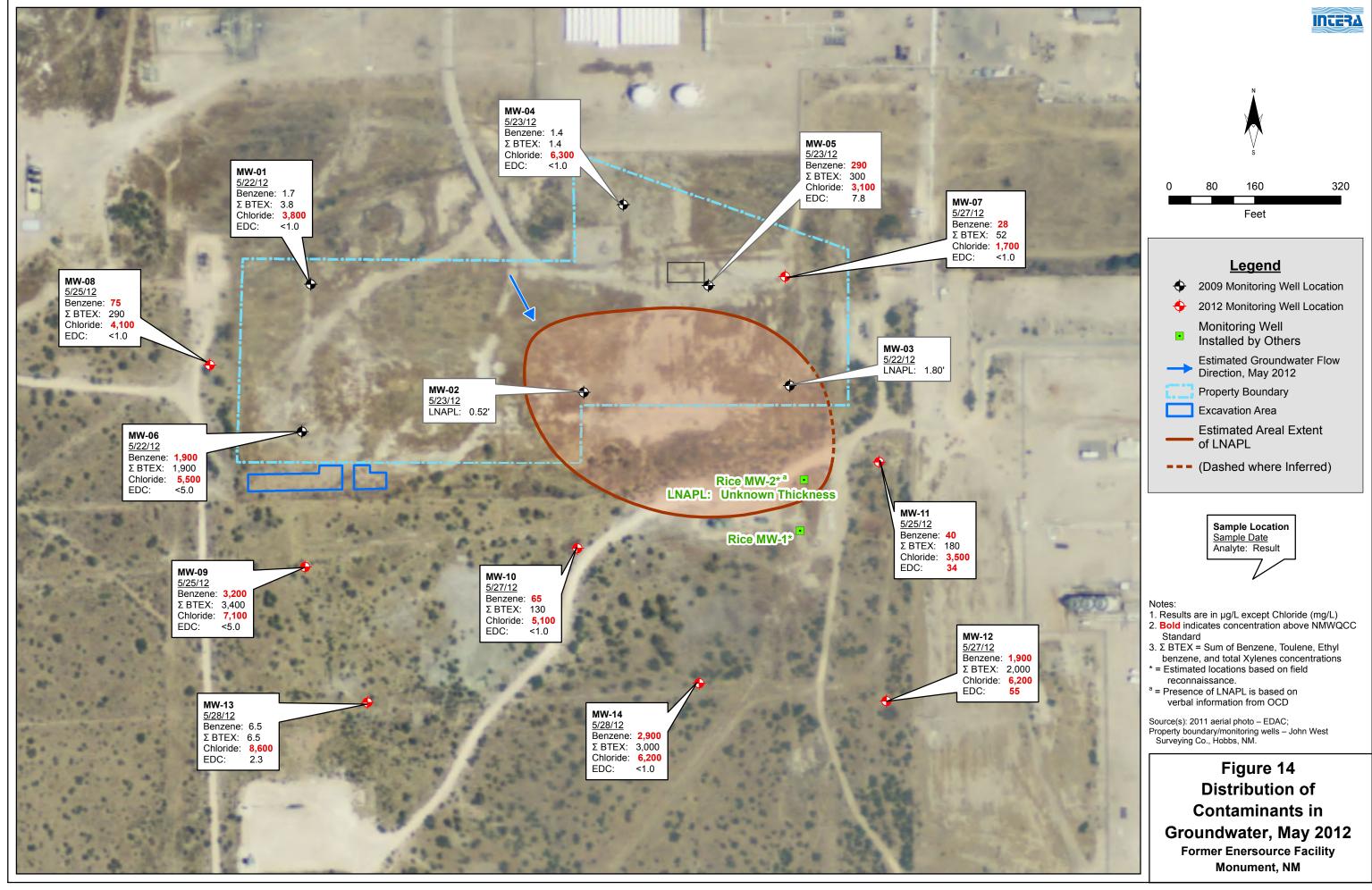














### TABLE 1 Soil Screening PID Results 2012 Site Investigation Report

#### Former Enersource Facility - Monument, Lea County, New Mexico

		Sample Interval	PID Reading
Borhole ID	Date	(ft bgs)	(ppm)
		0' - 1'	NA
		1' - 4'	246
		4' - 9'	33.9
		9' - 14'	203
		14' - 19'	1,266
MW-07	5/9/2012	19' - 24'	1,242
10100	0/0/2012	24' - 29'	945
		29' - 34'	312
		34' - 39'	590
		39' - 41.5'	17.6
		41.5' - 44'	10.9
		44' - 49'	99.9
		0' - 4'	NA
		4' - 9'	8.0
		9' - 14'	0.1
		14' - 19'	1,667
		19' - 23.5'	1,666
		24' - 29'	1,629
MANA/ OO	E/10/0010	29' - 33'	1,601
MW-08	5/12/2012	33' - 34'	1,601
		34' - 38'	1,619
		38' - 39'	261
		39' - 42.4'	319
		42.4' - 44'	50.5
		44' - 46'	196
		46' - 49'	90.8
		0' - 4'	NA
		4' - 7.6'	0
		7.6' - 9'	0.4
		9' – 11'	0
	5/13/2012	11' – 14'	0
		14' - 19'	987
		19' - 23'	1,774
		23' - 24'	1,638
MW-09		24' - 29'	1,365
		29' - 34'	1,207
		34' - 38.5'	464
		38.5' - 39'	653
	5/14/2012		
		39' - 39.5'	98.6
		39.5' - 44'	142
		44' – 45'	149
		45' – 49'	33.4



## TABLE 1 Soil Screening PID Results 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

		Sample Interval	PID Reading
Borhole ID	Date	(ft bgs)	(ppm)
		0' - 4'	NA
		4' - 7.5'	1.3
		7.5' - 9'	0
		9' - 12.6'	0
		12.6' - 14'	131
		14' - 14.5'	1,905
		14.5' - 19'	1,400
MW-10	5/15/2012	19' - 24'	1,985
10100-10	5/15/2012	24' - 29'	2,117
		29' - 34'	1,889
		34' - 38.5'	1,318
		38.5' - 39'	93.6
		39' - 42.5'	79.5
		42.5' - 44'	3.5
		44' - 49'	NA
		49' - 50'	NA
		0' - 4'	NA
		4' - 9'	107
	5/9/2012	9' - 14'	56.7
		14' - 19'	1,406
		19' - 22.7'	1,681
B 40 A / 4 /		22.7' - 24'	1,419
MW-11		24' - 29'	1,488
		29' - 34'	1,686
	5/10/2012	34' - 39'	1,440
		39' - 41.5'	87
		41.5' - 44'	28.5
		44' - 49'	30.7
		0' - 4'	NA
		4' - 9'	0
		9' - 14'	0
		14' - 19'	477
		19' - 24'	1,324
NAVA / 4 O	5/40/0040	24' - 29'	1,727
MW-12	5/16/2012	29' - 33'	1,789
		33' - 34'	1,749
		34' - 38'	1,788
		38' - 39'	932
		39' - 44'	81.2
		44' - 49'	22.4



### TABLE 1 Soil Screening PID Results 2012 Site Investigation Report

#### Former Enersource Facility - Monument, Lea County, New Mexico

		Sample Interval	PID Reading
Borhole ID	Date	(ft bgs)	(ppm)
		0' - 4'	NA
		4' - 9'	0
		9' - 12.9'	0
		12.9' - 14'	5.7
		14' - 19'	530
		19' - 24'	1,517
MW-13	5/26/2012	24' - 29'	1,599
10100-13	5/26/2012	29' - 34'	227
		34' - 35'	94
		35' - 37'	NR
		37' - 38.5'	18.7
		38.5' - 39'	6.9
		39' - 44'	33
		44' - 48'	0
		0' - 4'	NA
		4' - 6'	0
		6' - 9'	0
		9' - 14'	190
		14' - 15'	1,301
		15' - 19'	1,450
		19' - 23'	1,801
		23' - 24'	1,440
MW-14	5/25/2012	24' - 26'	1,728
10100-14	5/25/2012	26' - 29'	1,614
		29' - 34'	1,728
		34' - 37'	NR
		37' - 38'	1356
		38' - 39'	588
		39' - 42'	108
		42' - 44'	36.9
		44' - 48'	19.1
		48' - 50'	3.8

#### Notes:

**Bolding** indicates PID results exceeding 100 ppm

NA = Not analyzed

NR = No recovery

PID = Photoionization Detector with 10.6 electron volt lamp calibrated to 100 ppmv isobutylene

ft bgs = feet below ground surface

ppm = parts per million

ppmv = parts per million by volume



TABLE 2
Summary of Analytical Chemistry Results - Soil
2012 Site Investigation Report
Former Enersource Facility - Monument, Lea County, New Mexico

										Concent	ration (mg/kg)							
Boring ID	Date	Sample Depth (bgs)	трн ско	TPH DRO + MRO	Total ТРН	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1,2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB <sup>3</sup>	Total Naphthalenes <sup>1, 4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH						VOCs						PAHs		Inorganic
		8.0	< 5.0	< 50	< 50	< 0.10	< 0.10	< 0.10	< 0.20	< 0.20	< 0.10	< 0.10	< 0.10	< 0.40	-	-	-	69
DPB-01	6/15/2009	11.0	< 5.0	12	12	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	59
		12.0	42	150	192	< 0.25	< 0.25	0.32	< 0.50	0.32	< 0.25	< 0.25	< 0.25	< 1.0	-	-	-	130
		7.0	< 5.0	26	26	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	74
DPB-02	6/15/2009	8.0	360	620	980	< 0.25	< 0.25	3.6	11	14.6	< 0.25	< 0.25	< 0.25	5.11	-	-	-	130
		12.0	670	940	1610	< 0.25	2.4	14	35	51.4	< 0.25	< 0.25	< 0.25	6.3	-	-	-	76
DDD 00	0/45/0000	11.5	< 5.0	17	17	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	16
DPB-03	6/15/2009	12.0	250	530	780	< 0.25	0.8	4.4	12	17.2	< 0.25	< 0.25	< 0.25	3.44	-	-	-	16
		15.0	300	570	870	< 0.25	5.6	14	36	55.6	< 0.25	< 0.25	< 0.25	3.8	-	-	-	17
DPB-04	6/15/2009	1.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	18
		5.5	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	14
DPB-05	6/15/2009	10.0	< 5.0	< 50 22	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050 < 0.050	< 0.20	-	-	-	39 24
DFB-03	0/13/2009	11.0 13.0	< 5.0 390	1300	22 <b>1690</b>	< 0.050 < 1.0	< 0.050 < 1.0	< 0.050 1.6	< 0.10 2.4	< 0.10 4	< 0.050 < 1.0	< 0.050 < 1.0	< 1.0	< 0.20 < 4.0	-	-	-	37
		1.0	< 5.0	163	163	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	<del>-</del>	-	19
DPB-06	6/15/2009	6.5	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	<del>-</del>	_	700
		4.0	< 5.0	152	152	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	_	_	_	130
DPB-07	6/16/2009	6.0	99	2130	2229	0.71	0.33	2.7	3.9	7.64	< 0.25	< 0.25	< 0.25	< 1.0	_	_	_	980
J. 5 01	0/10/2000	14.5	150	330	480	< 0.050	< 0.050	1.1	3.9	5	< 0.050	< 0.050	< 0.050	0.88	_	_	_	970
		5.0	180	159	339	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	61
DPB-08	6/16/2009	6.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	74
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	57
		4.0	< 5.0	470	470	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	21
DPB-09	6/16/2009	8.0	67	10300	10367	0.36	0.083	1.7	0.95	3.09	< 0.050	< 0.050	< 0.050	1.9	-	-	-	34
		11.0	460	11700	12160	2.8	6.4	18	18	45.2	< 0.50	< 0.50	< 0.50	15.8	-	-	-	42
		4.0	650	7800	8450	2.3	< 0.25	18	27	47.3	< 0.25	< 0.25	< 0.25	21.8	-	-	-	47
DPB-10	6/16/2009	7.5	340	4100	4440	< 0.50	< 0.50	7	14	21	< 0.50	< 0.50	< 0.50	31.5	-		-	67
		8.0	310	2200	2510	< 0.050	0.073	0.68	1.5	2.25	< 0.050	< 0.050	< 0.050	2.52	-	-	-	48
		4.0	< 5.0	70	70	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	18
DPB-11	6/16/2009	5.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	11
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	40
DPB-12	6/16/2009	4.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	33
5, 5, 12	0,10,2000	7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	58



TABLE 2
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				Concentration (mg/kg)														
Boring ID	Date	Sample Depth (bgs)	трн сво	TPH DRO + MRO	Total TPH	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1, 2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB³	Total Naphthalenes <sup>1, 4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH						VOCs						PAHs		Inorganic
		4.0	< 5.0	242	242	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	110
DPB-13	6/16/2009	5.5	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	37
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	30
		4.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	29
DPB-14	6/16/2009	5.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	26
		6.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	29
		4.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	290
DPB-15	6/16/2009	5.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	670
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	350
		3.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	2
DPB-16	6/16/2009	8.5	< 5.0	13	13	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	1.9
		11.0	310	1100	1410	0.76	4.9	15	49	17.42	< 0.50	< 0.50	< 0.50	15.5	-	-	-	6.9
		3.5	< 250	17000	17000	< 0.25	< 0.25	0.55	< 0.50	0.55	< 0.25	< 0.25	< 0.25	14.1	-	-	-	43
DPB-17	6/16/2009	5.5	< 5.0	88	88	< 0.050	< 0.050	< 0.050	0.11	0.11	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	110
		6.5	< 5.0	50	50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	69
DPB-18	6/16/2009	2.5	71	5800	5871	< 0.50	< 0.50	< 0.50	1.6	1.6	< 0.50	< 0.50	< 0.50	2.6	-	-	-	110
DPB-19	6/17/2009	3.5	< 5.0	1800	1800	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	23
		5.5	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	220
DDD 00	0/47/0000	3.5	< 50	2600	2600	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 2.0	-	-	-	850
DPB-20	6/17/2009	5.0	58	3900	3958	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	13.5	-	-	-	700
		7.0	610	6400	7010	< 1.0	2.7	14	56	72.7	< 1.0	< 1.0	< 1.0	46.9	-	-	-	190
DDD 24	6/47/2000	4.0	< 5.0	1130	1130	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	220
DPB-21	6/17/2009	5.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	210
		6.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	66
DPB-22	6/17/2009	4.0	< 5.0	81	81	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	76
DPD-22	0/17/2009	4.5	< 5.0	28	28	< 0.050	< 0.050	< 0.050	0.17	0.17	< 0.050	< 0.050	< 0.050	0.33	-	-	-	37
		5.5	< 5.0	< 50	< 50 164	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	45
DPB-23	6/17/2009	2.5 3.5	< 5.0 < 5.0	164 197	197	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.10 < 0.10	< 0.10 < 0.10	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.20 < 0.20	-	-		93 28
		6.0	< 5.0 < 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	_	-	51
DPB-24	6/17/2009	8.0	< 5.0	< 50 < 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20			-	23
DI D-24	0/11/2009	10.0	< 5.0 < 5.0	< 50 < 50	< 50 < 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	23 16
		3.5	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-		_	8.6
DPB-25	6/17/2009	6.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-		19
		0.0	<b>₹ 3.0</b>	\ \ \ \ \	V 00	< 0.000	< 0.000	< 0.000	V 0.10	V 0.10	V 0.000	V 0.000	< 0.000	\ ∪.∠∪			_	19



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				Concentration (mg/kg)														
Boring ID	Date	Sample Depth (bgs)	TPH GRO	TPH DRO + MRO	Total TPH	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1, 2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB <sup>3</sup>	Total Naphthalenes <sup>1,4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH						VOCs						PAHs		Inorganic
DPB-26	6/17/2009	2.5 3.5 6.5	< 250 < 100 < 5.0	12200 9300 < 50	<b>9300</b> < 50	< 2.5 < 1.0 < 0.050	< 2.5 < 1.0 < 0.050	< 2.5 < 1.0 < 0.050	< 5.0 < 2.0 < 0.10	< 5.0 < 2.0 < 0.10	< 2.5 < 1.0 < 0.050	< 2.5 < 1.0 < 0.050	< 2.5 < 1.0 < 0.050	< 10 < 4.0 < 0.20	- - -	- -	- - -	330 420 320
DPB-27	6/17/2009	2.0 3.5 6.5	660 340 < 5.0	27800 2650 < 50	<b>28460 2990</b> < 50	19 < 0.25 < 0.050	29 2.2 < 0.050	14 4.9 < 0.050	33 12 < 0.10	<b>95</b> 19.1 < 0.10	< 0.50 < 0.25 < 0.050	< 0.50 < 0.25 < 0.050	< 0.50 < 0.25 < 0.050	4.5 3.6 < 0.20	- - -		-	250 520 310
DPB-28	6/17/2009	3.5 6.0	< 5.0 < 5.0	< 50 < 50	< 50 < 50	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.10 < 0.10	< 0.10 < 0.10	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.20 < 0.20	- -	-	-	24 <b>530</b>
DPB-29	6/17/2009	2.5 3.5 7.0	220 240 210	21500 24700 6900	21720 24940 7110	0.33 0.41 2.1	< 0.25 < 0.25 < 0.25	2.4 3.5 5.7	< 0.50 < 0.50 1.4	2.73 3.91 9.2	< 0.25 < 0.25 < 0.25	< 0.25 < 0.25 < 0.25	< 0.25 < 0.25 < 0.25	6.3 8.5 5.14	- - -	-	-	35 51 35
DPB-30	6/17/2009	2.5 3.5 5.8	690 1400 810	11200 10700 2600	11890 12100 3410	3.6 7.1 1.5	< 0.50 1.7 2.3	9.8 21 11	9.2 37 27	22.6 <b>66.8</b> 41.8	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50 < 0.50	< 0.50 < 0.50 < 0.50	11.3 33.9 21.6	- - -	- -	-	55 190 160
DPB-31	6/17/2009	3.5 6.0 7.0	< 5.0 < 5.0 < 50	350 216 2500	350 216 <b>2500</b>	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.10 < 0.10 < 1.0	< 0.10 < 0.10 < 1.0	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.20 < 0.20 < 2.0	- - -	- -	- -	100 75 89
DPB-32	6/17/2009	3.5 5.0 6.0	< 5.0 < 5.0 < 50	237 190 3800	237 190 <b>3800</b>	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.10 < 0.10 < 1.0	< 0.10 < 0.10 < 1.0	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.050 < 0.050 < 0.50	< 0.20 < 0.20 < 2.0	- - -	-	-	320 470 <b>510</b>
DPB-33	6/17/2009	3.5 7.0 9.5	< 5.0 < 5.0 < 5.0	< 50 < 50	< 50 < 50	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.20 < 0.20 < 0.20	- - -	- - -	-	250 83 30
DPB-34	6/17/2009	3.5 4.5	< 5.0 < 5.0	< 50 140	< 50 140	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.10 < 0.10	< 0.10 < 0.10	< 0.050 < 0.050	< 0.050 < 0.050	< 0.050 < 0.050	< 0.20 < 0.20	-	-	-	13 8.9
DPB-35	6/17/2009	3.5 4.5 6.5	< 25 410 < 100	2400 8700 1200	2400 9110 1200	< 0.25 < 2.5 < 1.0	< 0.25 < 2.5 < 1.0	< 0.25 < 2.5	< 0.50 13 4.4	< 0.50 13 5.4	< 0.25 < 2.5 < 1.0	< 0.25 < 2.5 < 1.0	< 0.25 < 2.5 < 1.0	< 1.0 57 17.7	- - -	-	- - -	810 660 570
DPB-36	6/17/2009	3.5 4.5 6.0	< 5.0 < 5.0 < 5.0	< 50 < 50 < 50	< 50 < 50 < 50	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050	< 0.20 < 0.20 < 0.20	- -	-	-	7.9 9.1 16
DPB-37	6/17/2009	3.5 4.5 5.0	< 5.0 < 5.0 < 5.0 < 5.0	< 50 152 < 50 < 50	< 50 152 < 50 < 50	< 0.050 < 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050 < 0.050	< 0.10 < 0.10 < 0.10 < 0.10	< 0.10 < 0.10 < 0.10 < 0.10	< 0.050 < 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050 < 0.050	< 0.050 < 0.050 < 0.050 < 0.050	< 0.20 < 0.20 < 0.20 < 0.20	- - -	- - -	-	65 400 210



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				Concentration (mg/kg)														
Boring ID	Date	Sample Depth (bgs)	трн ско	TPH DRO + MRO	Total TPH	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1,2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB³	Total Naphthalenes <sup>1, 4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH						VOCs						PAHs		Inorganic
		3.5	< 5.0	750	750	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	17
DPB-38	6/18/2009	4.5	< 5.0	1110	1110	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	50
		5.5	< 5.0	65	65	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	56
DPB-39	6/18/2009	3.5	< 100	18600	18600	< 0.25	< 0.25	< 0.25	< 0.50	< 0.50	-	-	-	-	-	-	-	85
DI D 33	0/10/2003	5.5	< 5.0	93	93	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	87
		2.5	< 100	41000	41000	< 0.50	< 0.50	< 0.50	< 1.0	< 1.0	-	-	-	-	-	-	-	51
DPB-40	6/18/2009	5.0	< 100	29000	29000	< 0.50	< 0.50	0.76	< 1.0	0.76	-	-	-	-	-	-	-	56
		7.0	< 5.0	329	329	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	51
		2.5	< 50	4300	4300	< 0.25	< 0.25	< 0.25	< 0.50	< 0.50	-	-	-	-	-	-	-	24
DPB-41	6/18/2009	3.5	100	21900	22000	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	-	-	-	-	-	-	-	24
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	43
		2.6	< 100	8200	8200	< 0.25	< 0.25	< 0.25	< 0.50	< 0.50	-	-	-	-	-	-	-	17
DPB-42	6/18/2009	4.5	< 5.0	1330	1330	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	38
		7.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	47
		2.0	< 5.0	690	690	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	22
DPB-43	6/18/2009	3.0	< 100	20100	20100	< 0.25	< 0.25	< 0.25	< 0.50	< 0.50	-	-	-	-	-	-	-	95
_	2/2/222	6.0	< 5.0	2050	2050	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	-	-	-	-	-	-	-	24
East	6/8/2009	-	<50	366	366	<0.05	<0.05	<0.05	<0.3	<0.3	-	-	-	-	-	-	-	592
	0/40/0000	1.0	6.5	420	426.5	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	0.39
MW-01	6/10/2009	34.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	870
		41.0	< 5.0	< 50	< 50	< 0.050	< 0.050	< 0.050	< 0.10	< 0.10	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	940
		1.0	6.5	2800	2806.5	0.22	< 0.050	< 0.050	< 0.10	0.22	< 0.050	< 0.050	< 0.050	< 0.20	-	-	-	-
		4.0	370	10500	10870	2.4	< 0.50	13	7.6	23	< 0.50	< 0.50	< 0.50	18.5	-	-	-	140
MW-02	6/13/2009	10.0	4000	17200	21200	56	11	120	200	387	< 2.5	< 2.5	< 2.5	56	-	-	-	130
10100-02	6/13/2009	20.0	2300	3500	5800	15	< 2.5	84	150	249	< 2.5	< 2.5	< 2.5	< 10	-	-	-	410
		30.0	280	530	810 570	< 0.50	< 0.50	9.8	14	23.8	< 0.50	< 0.50	< 0.50	8.2	-	-	-	430
		35.0 40.0	150 7.2	420 < 50	<b>570</b> 7.2	<b>0.2</b> < 0.25	0.08 < 0.25	4.6 < 0.25	6.3 < 0.50	11.18 < 0.50	< 0.050 < 0.25	< 0.050 < 0.25	< 0.050 < 0.25	1.83 < 1.0	-	-	<del>-</del>	550 <b>1300</b>
	+	1.0		280	280	< 0.25			< 0.50		< 0.25		< 0.25	< 0.20	-	<del>-</del>	-	<b>1300</b> 490
		10.0	< 5.0 300	26	326	< 0.050	< 0.050 < 0.50	< 0.050 12	23	< 0.10	< 0.050	< 0.050 < 0.50	< 0.050	8.7	-	<del>-</del> -	<del>-</del>	770
		20.0	300	810	1110	< 0.50	< 0.50	13	25	35 38	< 0.50	< 0.50	< 0.50	11.1	-	-	-	520
MW-03	6/12/2009	30.0	< 250	2100	2100	< 0.50	< 0.50	9	21	30	< 0.50	< 0.50	< 0.50	18.6	-	-	<del>-</del>	360
		35.5	470	11000	11470	< 0.50 <b>15</b>	< 1.0	20	21	56	< 1.0	< 1.0	< 1.0	32.1	-	-	-	680
						< 0.050	•	< 0.050		< 0.10	< 0.050		< 0.050	< 0.20				
		42.0	5.5	81	86.5	< 0.050	< 0.050	VCU.U >	< 0.10	< U.1U	VCU.U >	< 0.050	VCU.U >	< U.ZU	-	-	-	940



TABLE 2
Summary of Analytical Chemistry Results - Soil
2012 Site Investigation Report
Former Enersource Facility - Monument, Lea County, New Mexico

				Concentration (mg/kg)														
Boring ID	Date	Sample Depth (bgs)	трн ско	TPH DRO + MRO	Total TPH	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1, 2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB <sup>3</sup>	Total Naphthalenes <sup>1,4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH						VOCs						PAHs		Inorganic
MW-04	6/11/2009	1.0 17.5 35.0 43.5	< 5.0 360 < 5.0 < 5.0	2070 10500 < 50 < 50	2070 10860 < 50 < 50	< 0.050 < 0.50 < 0.050 < 0.050	< 0.050 < 0.50 < 0.050 < 0.050	< 0.050 13 < 0.050 < 0.050	< 0.10 7.4 < 0.10 < 0.10	< 0.10 20.4 < 0.10 < 0.10	< 0.050 < 0.50 < 0.050 < 0.050	< 0.050 < 0.50 < 0.050 < 0.050	< 0.050 < 0.50 < 0.050 < 0.050	< 0.20 30.7 < 0.20 < 0.20	- - -	- - -	- - -	20 38 960 990
MW-05	6/11/2009	1.0 4.0 34.5 41.0	< 10 39 < 5.0 < 5.0	5300 11500 19 < 50	5300 11539 19 < 50	< 0.25 < 0.25 < 0.050 < 0.050	< 0.25 < 0.25 < 0.050 < 0.050	< 0.25 < 0.25 < 0.050 < 0.050	< 0.50 1.9 < 0.10 < 0.10	< 0.50 1.9 < 0.10 < 0.10	< 0.25 < 0.25 < 0.050 < 0.050	< 0.25 < 0.25 < 0.050 < 0.050	< 0.25 < 0.25 < 0.050 < 0.050	< 1.0 1 < 0.20 < 0.20	- - -	- - -	- - -	76 84 590 740
MW-06	6/9/2009 6/10/2009	1.0 35.0 43.0	< 5.0 350 < 5.0	187 1700 < 50	187 <b>2050</b> < 50	< 0.050 <b>2.9</b> < 0.050	< 0.050 < 0.25 < 0.050	< 0.050 14 < 0.050	< 0.10 4.5 < 0.10	< 0.10 21.4 < 0.10	< 0.050 < 0.25 < 0.050	< 0.050 < 0.25 < 0.050	< 0.050 < 0.25 < 0.050	< 0.20 3 < 0.20	- - -	- -	- -	8.9 55 720
N35E15-10	6/9/2009	10.0	<10	<10	<10	<0.05	<0.05	<0.05	<0.3	<0.3	-	-	-	-	-	-	-	2240
N35E15-15	6/9/2009	15.0	345	959	1304	0.737	1.4	7.91	14.6	24.647	-	-	-	-	-	-	-	3120
West	6/8/2009		<10	<10	<10	<0.05	<0.05	<0.05	<0.3	< 0.3	-	-	-	-	-	-	-	96
CS1 CS2	6/23/2009 6/23/2009	5.0 5.0	420 < 5.0	5400 < 50	<b>5820</b> < 50	-	-	-	-	-	-	-	-	-	-	-	-	-
CS3 CS4	6/23/2009 6/23/2009	10.0 5.0	1200 < 5.0	5000 < 50	<b>6200</b> < 50	-	-	-	-	-	-	-	-	-	-	-	-	-
CS5	6/23/2009	5.0	79	1720	1799	-	-	-	-	-	-	-	-	-	-	-	-	-
CS6 CS7	6/23/2009 6/23/2009	10.0 5.0	96 360	1490 3500	1586 3860	-	-	-	-	-	-	-	-	-	-	-	-	-
CS13 CS15	6/24/2009 6/25/2009	5.0 5.0	< 10 < 5.0	56 < 50	56 < 50	-	-	-	-	-	-	-	-	-	- -	-	-	-
CS19 CS21	6/25/2009 6/25/2009	5.0 5.0	< 5.0 < 50	< 50 1170	< 50 1170	-	-	-	-	-	-	-	-	-	-	-	-	-
CS22	6/25/2009	10.0	420	210	630	-	-	-	-	-	-	-	-	-	-	-	-	-
CS23 CS24 MW-07	6/25/2009 6/25/2009 5/8/2012	5.0 20.0 14'-19'	< 5.0 510 <250	< 50 530 2900	< 50 1040 2900	- - <2.5	- - <2.5	- - <2.5	- - <5.0	- - <2.5	- - <2.5	- - <2.5	- - <2.5	- - <10	- - 18	- - <0.20	- 0.90	- - 31
MW-08 MW-09 MW-10	5/12/2012 5/13/2012 5/15/2012	14'-19' 19'-23' 24'-29'	100 490 520	43 630 780	143 1120 1300	<1.0 <2.5 <2.5	<1.0 <2.5 <2.5	<1.0 4.8 10	<2.0 12 25	<2.0 17 35	<1.0 <2.5 <2.5	<1.0 <2.5 <2.5	<1.0 <2.5 <2.5	<4.0 <10 <10	<0.20 6.5 8.9	<0.20 <0.20 <0.20	<0.20 <0.20 <0.20	570 260 <7.5
MW-11 MW-12	5/10/2012 5/16/2012	29'-34' 29'-33'	56 310	910 1500	966 1810	<0.25 <2.5	<0.25 <2.5	<0.25 5.8	0.56 20	0.56 26	<0.25 <2.5	<0.25 <2.5	<0.25 <2.5	6.5	8.6 18	<0.20	0.46	120 230



#### TABLE 2

### Summary of Analytical Chemistry Results - Soil 2012 Site Investigation Report

#### Former Enersource Facility - Monument, Lea County, New Mexico

										Concent	ration (mg/kg)							
Boring ID	Date	Sample Depth (bgs)	TPH GRO	TPH DRO + MRO	Total TPH	Benzene <sup>1</sup>	Toluene <sup>1</sup>	Ethylbenzene <sup>1</sup>	Total Xylenes <sup>1</sup>	Total BTEX <sup>1,2</sup>	MTBE <sup>1</sup>	EDC <sup>1</sup>	EDB <sup>3</sup>	Total Naphthalenes <sup>1,,4</sup>	Total Naphthalenes <sup>4, 5</sup>	Fluorene <sup>5</sup>	Phenanthrene <sup>5</sup>	Chloride
				TPH		VOCs								PAHs		Inorganic		
MW-13	5/26/2012	24'-29'	240	450	690	<0.25	<0.25	2.0	2.0	4.0	<0.25	<0.25	0.27	<1.0	2.3	0.046	0.063	420
MW-14	5/25/2012	19'-23'	370	1000	1370	<1.0	<1.0	5.4	11	16	<1.0	<1.0	<1.0	12	7.5	0.063	0.050	<7.5

#### Notes:

- = Not Tested or Not Applicable

**Bolding** indicates values in excess of the soil standards.

- 1 = Analyzed by EPA Method 8260B
- 2 = Total BTEX includes sum of benzene, toluene, ethylbenzene, and total xylenes. RL for BTEX = highest RL for individual compounds; when summing detections, values listed as "<" RL are assumed to be 0.
- 3 = Analyzed by EPA Method 8260B
- 4 = Total naphthalenes includes the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. RL for Total Napthalenes = highest RL for individual compounds; when summing detections, values listed as "<" RL are
- 5 = Analyzed by EPA Method 8270C Selective Ion Monitoring
- $a = \le 6$  feet bgs = 500
- b = > 6 feet bgs = 1,000
- bgs = below ground surface
- BTEX = benzene, toluene, ethyl benzene, and total xylenes
- CS = confirmatory sample
- DPB = direct push boring
- DRO = diesel range organics
- EDB = 1,2-dibromoethane
- EDC = 1,2-dichloroethane
- EPA = U.S. Environmental Protection Agency

GRO = gasoline range organics

mg/kg = milligrams per kilogram

MRO = motor oil range organics

MTBE = methyl tertiary-butyl ether

MW = monitoring well

OCD Standard = Site-Specific standard established by Oil Conservation Division

RL = Reporting Detection Limit

TPH = Total Petroleum Hydrocarbons



## TABLE 3 Monitoring Well Construction Details 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

Well ID	Installation Date	Well Diameter (inches)	Screen Interval (ft bgs)	Total Depth (ft bgs)	Northing <sup>a</sup> (ft)	<b>Easting</b> <sup>a</sup> (ft)	Ground Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Top of Screen (ft amsl)	Bottom of Screen (ft amsl)	Total Depth (ft amsl)
MW-01	6/11/2009	4	27' - 42'	42	586267.1	814178.7	3580.40	3582.43	3553.40	3538.40	3538.40
MW-02	6/14/2009	4	29' - 44'	44	586065.4	814687.7	3580.00	3582.94	3551.00	3536.00	3536.00
MW-03	6/13/2009	4	30' - 45'	45	586077.6	815072.1	3578.84	3581.84	3548.84	3533.84	3533.84
MW-04	6/11/2009	4	28' - 43'	43	586414.9	814761.8	3581.10	3583.33	3553.10	3538.10	3538.10
MW-05	6/12/2009	4	28' - 43'	43	586264.3	814920.2	3580.18	3582.10	3552.18	3537.18	3537.18
MW-06	6/10/2009	4	28' - 43'	43	585992.1	814162.5	3579.35	3582.48	3551.35	3536.35	3536.35
MW-07	5/11/2012	4	33' - 48'	48	586281.5	815063.6	3579.02	3582.14	3546.02	3531.02	3531.02
MW-08	5/13/2012	4	34' - 49'	49	586116.1	813990.6	3580.90	3584.11	3546.90	3531.90	3531.90
MW-09	5/14/2012	4	34' - 49'	49	585739.6	814168.4	3579.22	3582.21	3545.22	3530.22	3530.22
MW-10	5/16/2012	4	34' - 49'	49	585774.3	814676.1	3577.01	3580.23	3543.01	3528.01	3528.01
MW-11	5/11/2012	4	34' - 49'	49	585935.7	815238.7	3577.75	3580.91	3543.75	3528.75	3528.75
MW-12	5/16/2012	2	32' - 47'	47	585489.6	815252.4	3575.73	3578.81	3543.73	3528.73	3528.73
MW-13	5/26/2012	2	32' - 47'	47	585487.1	814284.5	3577.04	3579.95	3545.04	3530.04	3530.04
MW-14	5/25/2012	2	35' - 50'	50	585523.1	814903.3	3575.99	3578.82	3540.99	3525.99	3525.99

#### Notes:

 $a = Datum \ for \ northing \ and \ easting \ coordinates \ is \ "New Mexico East Zone, \ North \ American \ Datum \ of \ 1983"$ 

amsl = above mean sea level

bgs = below ground surface

ft = feet



# TABLE 4 Fluid Level Gauging Results 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

Well ID	Gauging Date	Top of Casing Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	Screen Interval (ft bgs)	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Potentiometric Surface Elevation (ft amsl) <sup>1</sup>
	6/12/2009	3582.43	3580.40	27' - 42'	-	36.99	-	3545.44
	6/22/2009	3582.43	3580.40	27' - 42'	-	36.98	-	3545.45
MW-01	6/25/2009	3582.43	3580.40	27' - 42'	-	36.98	-	3545.45
10100-01	6/26/2009	3582.43	3580.40	27' - 42'	-	36.97	-	3545.46
	1/26/2011	3582.43	3580.40	27' - 42'	-	33.90	-	3548.53
	5/22/2012	3582.43	3580.40	27' - 42'	-	37.94	-	3544.49
	6/22/2009	3582.94	3580.00	29' - 44'	-	38.58	-	3544.36
MW-02	6/25/2009	3582.94	3580.00	29' - 44'	-	38.58	-	3544.36
IVIVV-UZ	6/26/2009	3582.94	3580.00	29' - 44'	-	38.52	-	3544.42
	1/26/2011	3582.94	3580.00	29' - 44'	-	35.90	-	3547.04
	5/23/2012	3582.94	3580.00	29' - 44'	39.48	40.00	0.52	3543.33
	6/22/2009	3581.84	3578.84	30' - 45'	37.96	37.96	0.00	3543.88
NAVA / 00	6/24/2009	3581.84	3578.84	30' - 45'	-	37.94	-	3543.90
MW-03	6/25/2009	3581.84	3578.84	30' - 45'	37.98	39.40	1.42	3543.51
	1/26/2011	3581.84	3578.84	30' - 45'	35.79	36.12	0.33	3545.97
	5/22/2012	3581.84	3578.84	30' - 45'	39.00	40.80	1.80	3542.39



# TABLE 4 Fluid Level Gauging Results 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

Well ID	Gauging Date	Top of Casing Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	Screen Interval (ft bgs)	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Potentiometric Surface Elevation (ft amsl) <sup>1</sup>
	6/12/2009	3583.33	3581.10	28' - 43'	-	38.13	-	3545.20
	6/22/2009	3583.33	3581.10	28' - 43'	-	38.02	-	3545.31
MW-04	6/25/2009	3583.33	3581.10	28' - 43'	•	37.99	-	3545.34
10100-04	6/26/2009	3583.33	3581.10	28' - 43'	-	37.98	-	3545.35
	1/26/2011	3583.33	3581.10	28' - 43'	-	34.64	-	3548.69
	5/22/2012	3583.33	3581.10	28' - 43'	-	39.08	-	3544.25
	6/12/2009	3582.10	3580.18	28' - 43'	-	37.56	-	3544.54
	6/22/2009	3582.10	3580.18	28' - 43'	-	37.50	-	3544.60
MW-05	6/25/2009	3582.10	3580.18	28' - 43'	-	37.49	-	3544.61
10100-05	6/26/2009	3582.10	3580.18	28' - 43'	-	37.47	-	3544.63
	1/26/2011	3582.10	3580.18	28' - 43'	-	34.58	-	3547.52
	5/22/2012	3582.10	3580.18	28' - 43'	-	38.52	-	3543.58
	6/12/2009	3582.48	3579.35	28' - 43'	-	37.37	-	3545.11
MW-06	6/22/2009	3582.48	3579.35	28' - 43'	-	37.57	-	3544.91
IVIVV-UO	6/24/2009	3582.48	3579.35	28' - 43'	-	37.58	-	3544.90
	6/25/2009	3582.48	3579.35	28' - 43'	-	37.58	-	3544.90



## TABLE 4 Fluid Level Gauging Results 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

Well ID	Gauging Date	Top of Casing Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	Screen Interval (ft bgs)	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Thickness (ft)	Potentiometric Surface Elevation (ft amsl) <sup>1</sup>
MW-06, continued	6/27/2009	3582.48	3579.35	28' - 43'	-	37.58	-	3544.90
	1/26/2011	3582.48	3579.35	28' - 43'	-	35.35	-	3547.13
	5/22/2012	3582.48	3579.35	28' - 43'	-	38.73	-	3543.75
MW-07	5/22/2012	3582.14	3579.02	33' - 48'	-	38.90	-	3543.24
MW-08	5/22/2012	3584.11	3580.90	34' - 49'	-	40.24	-	3543.87
MW-09	5/22/2012	3582.21	3579.22	34' - 49'	-	39.49	-	3542.72
MW-10	5/22/2012	3580.23	3577.01	34' - 49'	-	37.91	-	3542.32
MW-11	5/22/2012	3580.91	3577.75	34' - 49'	-	39.49	-	3541.42
MW-12	5/26/2012	3578.81	3575.73	32' - 47'	-	38.99	-	3539.82
MW-13	5/28/2012	3579.95	3577.04	32' - 47'	-	38.45	-	3541.50
MW-14	5/28/2012	3578.82	3575.99	35' - 50'	-	39.14	-	3539.68

#### Notes:

- = Data not available or not present
- 1 = Value calculated from: Potentiometric Surface Elevation = Top of Casing Elevation Depth to Water + (Product Thickness \* 0.75)

amsl = above mean sea level

bgs = below ground surface

btoc = below top of casing

ft = feet



### TABLE 5 Summary of Analytical Chemistry Results - Groundwater 2012 Site Investigation Report

#### Former Enersource Facility - Monument, Lea County, New Mexico

		VOCs									
Monitoring	Sample	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX <sup>a</sup>	EDB	EDC	Total Naphthalenes <sup>b</sup>	Chloride	Total Dissolved Solids <sup>©</sup>
Well ID	Date				Concentra					Concentra	
NMWQCC		10	750	750	620	NE	0.1	10	30	250 <sup>d</sup>	1000 <sup>d</sup>
	6/26/2009	7.9	< 1.0	9.5	7.2	24.6	-	< 1.0	< 4.0	7,900	-
MW-01	1/26/2011	2.6	<1.0	7.5	<1.5	10.1	-	<1.0	<4.0	5,900	14,500
	5/22/2012	1.7	<1.0	2.1	<1.5	3.8	<0.010	<1.0	<4.0	3,800	11,800
	6/26/2009	2,000	< 5.0	400	180	2,580	-	< 5.0	< 20	7,700	-
MW-02	1/27/2011	2,600	<1.0	180	39	2,819	-	<1.0	6	7,400	16,300
	5/22/2012	LANPL - NOT SAMPLED									
	6/26/2009	LNAPL - NOT SAMPLED									
MW-03	1/26/2011	LNAPL - NOT SAMPLED									
	5/22/2012	LNAPL - NOT SAMPLED									
	6/26/2009	< 1.0	< 1.0	< 1.0	< 1.5	< 1.5	-	< 1.0	< 4.0	7,800	-
MW-04	1/27/2011	3.3	<1.0	2.4	<1.5	5.7	-	<1.0	<4.0	5,200	12,500
	5/23/2012	1.4	<1.0	<1.0	<1.5	1.4	<0.010	<1.0	<4.0	6,300	13,300
	6/26/2009	330	15	58	120	523	-	3.4	58	5,700	-
MW-05	1/27/2011	480	<1.0	20	3.7	504	-	6.9	<4.0	2,900	7,740
	5/23/2012	290	<5.0	7.2	<7.5	300	<0.010	7.8	<20	3,100	8,230
	6/27/2009	3,100	22	280	170	3,572	-	< 5.0	< 20	5,300	-
MW-06	1/26/2011	6,200	<1.0	640	28	6,868	-	<1.0	5.1	6,200	15,500
	5/22/2012	1,900	<5.0	20	18	1,900	<0.010	<5.0	<20	5,500	14,200
MW-07	5/27/2012	28	3.6	6.9	13	52	<0.010	<1.0	16.9	1,700	4,630
MW-08	5/25/2012	75	14	1.8	200	290	<0.010	<1.0	6.3	4,100	12,100
MW-09	5/25/2012	3,200	33	71	100	3,400	<0.010	<5.0	<20	7,100	15,900
MW-10	5/27/2012	65	1.1	26	42	130	<0.010	<1.0	13	5,100	12,500
MW-11	5/25/2012	40	14	27	98	180	<0.010	34	34.5	3,500	7,970
MW-12	5/27/2012	1,900	<5.0	33	60	2,000	<0.010	55	<20	6,200	13,800
MW-13	5/28/2012	6.5	<1.0	<1.0	<1.5	6.5	<0.010	2.3	<4.0	8,600	18,800
MW-14	5/28/2012	2,900	2.7	72	69	3,000	<0.010	<1.0	20.2	6,200	13,400



#### **TABLE 5**

#### Summary of Analytical Chemistry Results - Groundwater 2012 Site Investigation Report Former Enersource Facility - Monument, Lea County, New Mexico

#### Notes:

- = Not Tested or Not Applicable

**Bolding** indicates values in excess of the groundwater standards.

a = Total BTEX includes sum of benzene, toluene, ethylbenzene, and total xylenes. RL for BTEX = highest RL for individual compounds; when summing detections, values listed as "<" RL are assumed to be 0.

b = Total naphthalenes includes the sum of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene. RL for Total Napthalenes = highest RL for individual compounds; when summing detections, values listed as "<" RL are assumed to be 0.

c = Samples were not filtered during the 2011 field sampling event

d = NMWQCC standard for domestic water supply

Chloride= by EPA Method 300.0

BTEX = benzene, toluene, ethyl benzene, and total xylenes

EDB = 1,2-dibromoethane

EDC = 1,2-dichloroethane

EPA = U.S. Environmental Protection Agency

 $\mu$ g/L = micrograms per liter

mg/L = milligrams per liter

NE = None Established

NMWQCC = Groundwater Standards as defined by the State of New Mexico Water Quality Control Commission (NMWQCC, 2002)

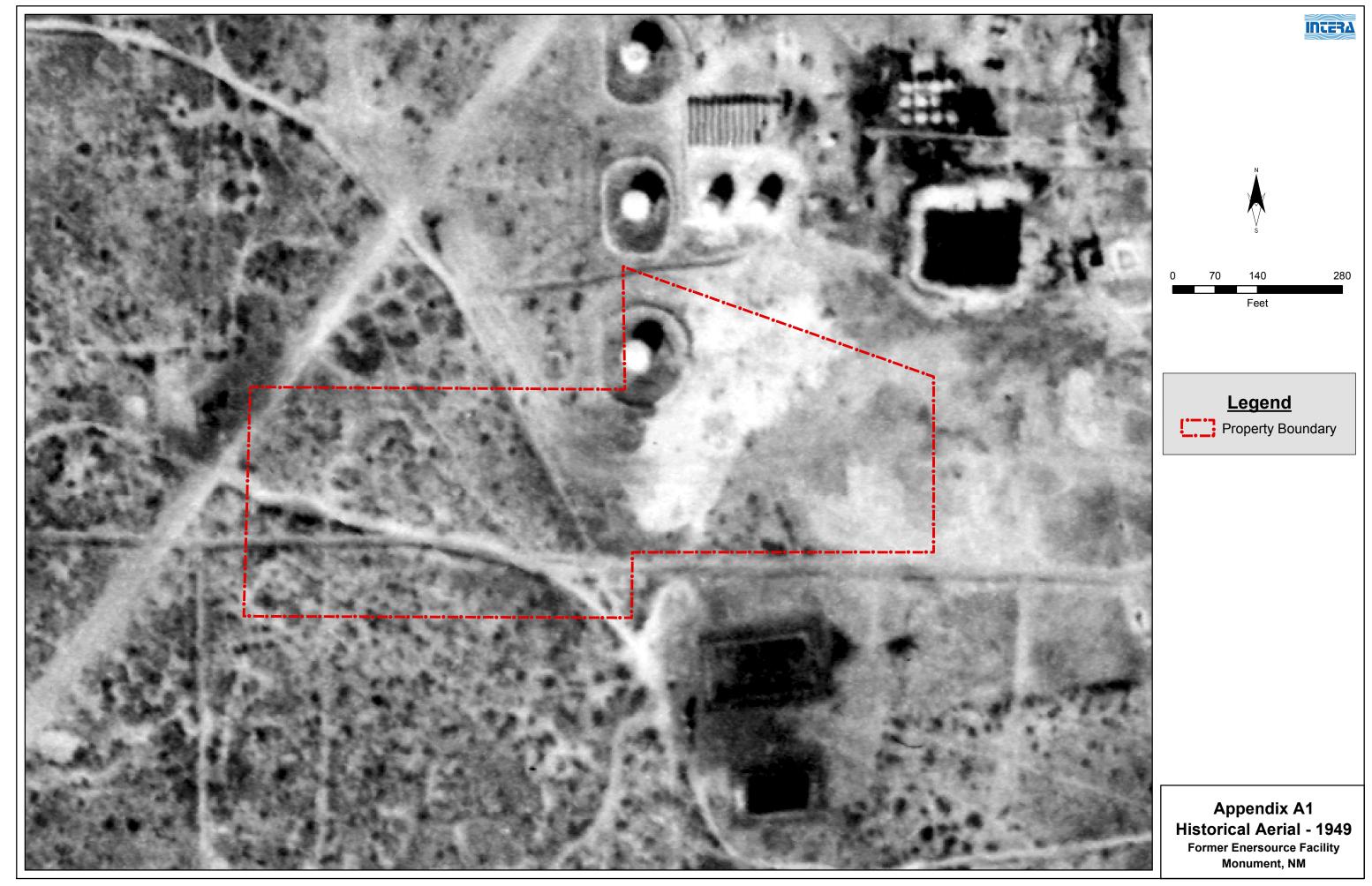
RL = Reporting Detection Limit

TDS = Total Dissolved Solids by SM2540C MOD

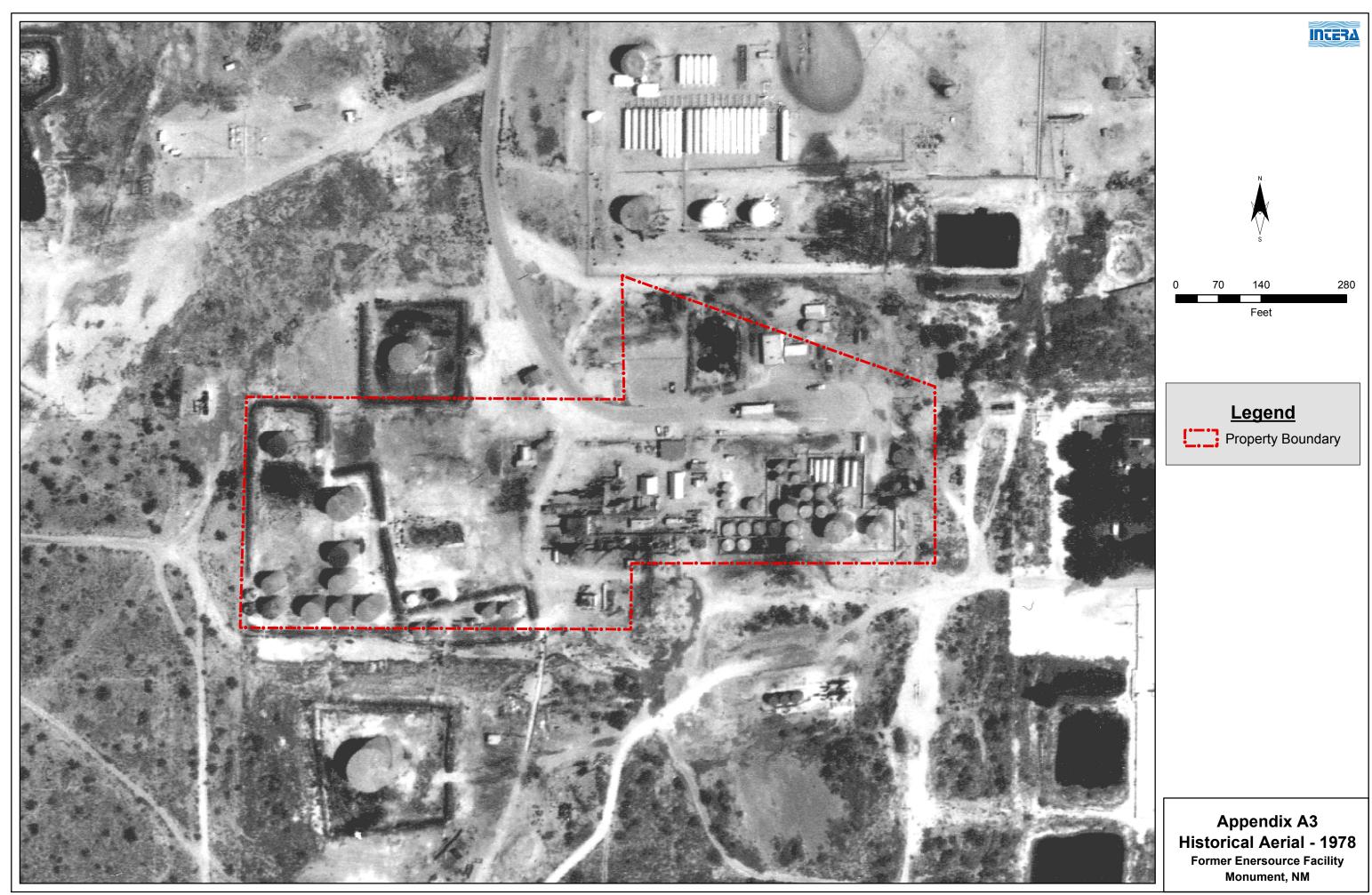
VOCs = volatile organic compounds by EPA Method 8260B except for EDB, which was analyzed by EPA Method 504.1



### APPENDIX A Historical Aerial Photographs







Path: S:\Projects\OCD - Enersource Facility\graphics\Monument NM\GIS\Additional Site Charac\AppendixAHistorical\AppA03 1978Historical

# APPENDIX B Field Notes

HSA 5/8/12 Drilling 1245: Les Dalton on site 1300: Tricia Johnson on- site 1400: Precision Sampling (Juan + Alex on-site Travel to all proposed well locations to check that they are located correctly of that there are not any utility issues Mal - 7,8,9,12 + 15 are located near poorly marked ppeline locations. The called Targa, Holly Energy, Apache, + Rice (Saltwater pipeline) - They have markers in the area. 1600: Tricial off-site is Precision offloading natural. 1640: Mobe rig to MW-47. 1650: Precision off-site is Les to Targer office to see about line locating tonorrow. The office is closed -call Sam Hoolges - 575-631-7058. Leave mess = 5e

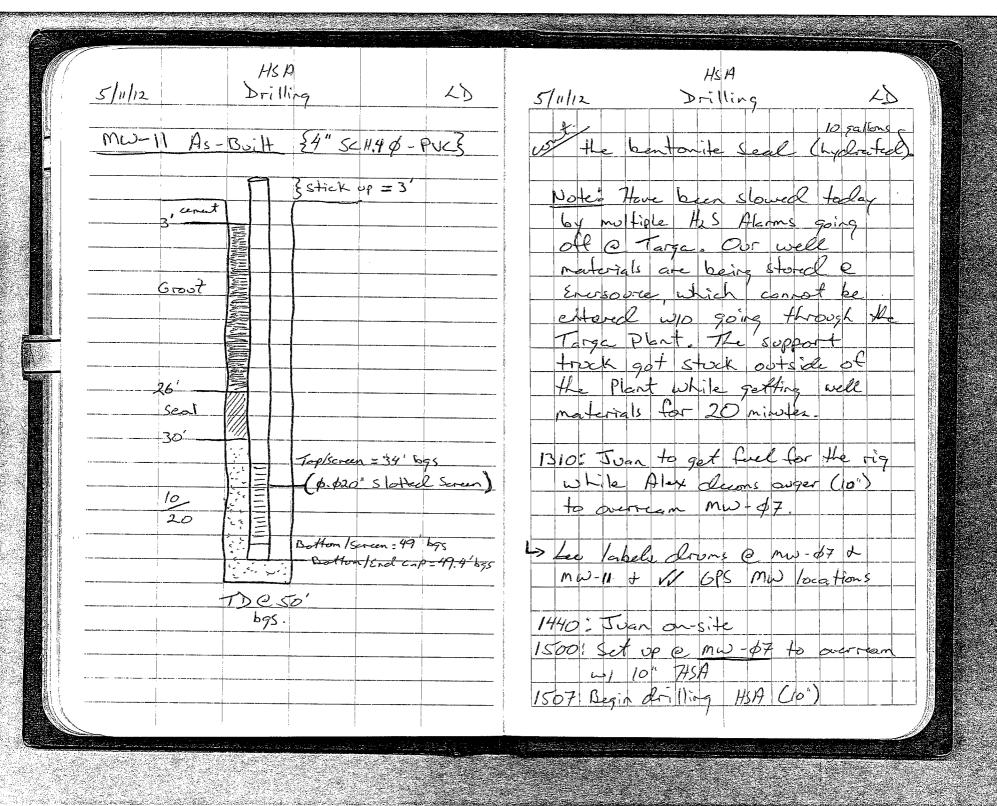
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HSA HSA 5/10/12 Drilling 5/9/12 Drilling 1455: Augers are out - clean up. Precision is waiting on 10" plugs 4 med Brad w/ El Paso N.6 ( due to arrive a Lotel today) to check out 2 locations that before we can overram + install a 4" well, will make to mw-12 + mw-15 MW-11 + begin drilling. \$730: Precision on-site 1525: Set up @ (mw-11.) Objective: Finish drilling & MW-11. 1535: PostLole dig \$-5' bes. 1550: Degin 745A (75/8" a) Lilling. install wells @ Mw-il + Mw-07. 1700: Stop for the day (T) @ 24'675)
La Precision off-site Weather: Raining + 56° F. 1720: Les off-site Confloct TGSM/Call brate PID Notes: MW-67 Soil Sample collected 0820: Continue drilling 7/5/ once @ 1010 in 2/402 Soil jars + 2/20ml mech vials for i voc's by 82600 1150: TD @ 49+655 (MW-11) = 39'695 TPH (GRO, DRO + MRO) by 8015B 1200: Stop Work order Notice given PAH'S Ly 8270 by Nm one call for 2 hrs. CI by 9056A L'S AN sample jars were labeled + Basel on locations given to NM one call by Intera not all Dland on ice. 4 Drill withings > 100 ppm (Leadspect).
were downed for disposal: Utility companies were contacted to mark lines. Therefore, an o

HSA 5/10/12 28 Drilling emergency locate reguest was sobritted by NM One Call that requires a 2 hr stop work period to allow utilities to mark their lines. La Precision offsite for lunch/supplies 1215: Contact Joe Galemore to inform him of the "Stop Work Notice". 1350: Precision on-site Note: Since the Emergency one call was submitted I have Leard from or net w/ OK. El Paco N.G. on Apache PM Gas rewly contain DCP Midstream OK since initial one call Rice OK 1420: Aprele off-site is Precision continues to trip out 7 5/8" Auger of will then overdrill)

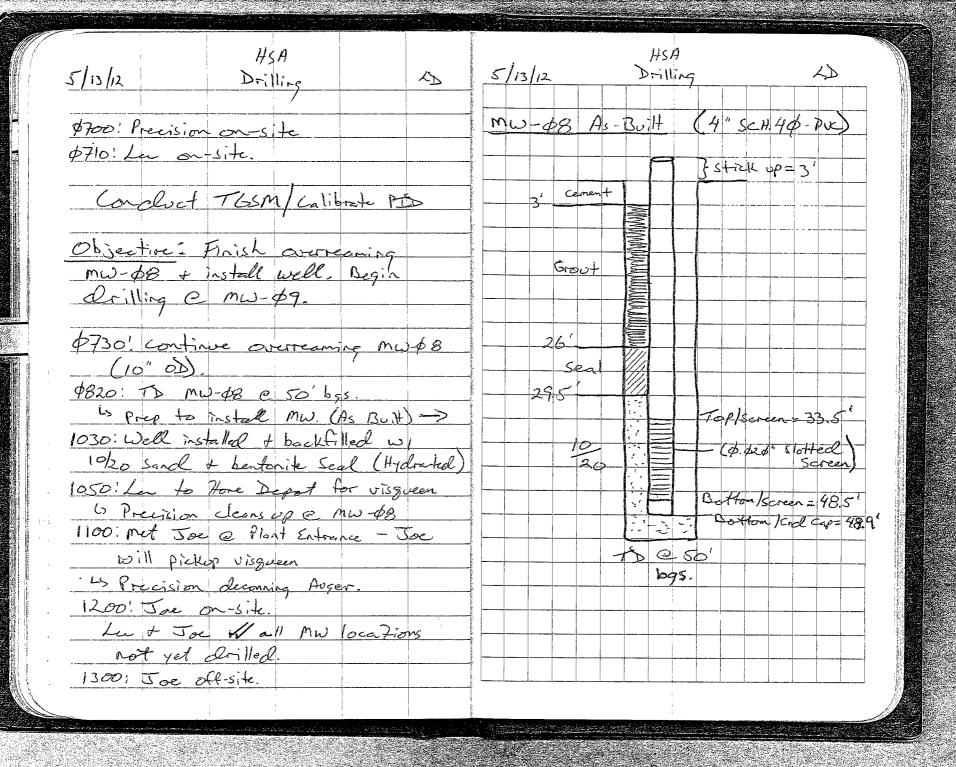
HSA 5/10/12 1450: Begin 75A (10" OD) drilling 1520: Shut down - Lightning 1540 - lightning Strike a powring 1550: Boill a bern ground mw \$7 ole. to keep water out 1620! All crew off-site Detes: Drived to 30' w/ 2he auger-L> mw 11 Spil Sample collected e \$700 (as described on 5/9/11) (from 29-34 695) Ls Drill cuttings >100 ppm we dramed for dis posal

HSA 5/11/12 Drilling 2 \$700! Les on-site Chevron - 1elt messege (432-687-7507) (s Precision on-site - D. Det. Ggs + OK-lines to north Objective: Install 4" wells e of Targe facility S. Union - Sportler coming out mw-11 + mw-7, decon 745A, Plains - left message (432-686-1767 Contact Utility companies that Trans Western - left massage (852-668-136) I haveit Leard back from as a result of the Emergency 45(675)-631-2586 one call issued yesterday Precision has installed the well @ Naon. - & Chevron, Northern + has begun to backfill we roke Deteral gas, Southern union Sand The well will be hung Plains & Trans westerns. cluring backfilling. + See nort pose for the As-Buill. Conduct TGSM 0720: Erist overcaming borehole (10"00). 1245: There not wy Southern union \$747: TD borchole @ 50' 695. Plains of Transavestern to review 4) prep to install 4" well pipeline locations we respect at proposed mw locations Call from Joe Greigo (El Paso) -Bard on a Plans pipeline he reads me to call win one call location moved MW- 49 SOUTA I have a ticket sent to him for their records - per one call 4> Precision has backfilled the operatoro well my 10/20 sand + installed



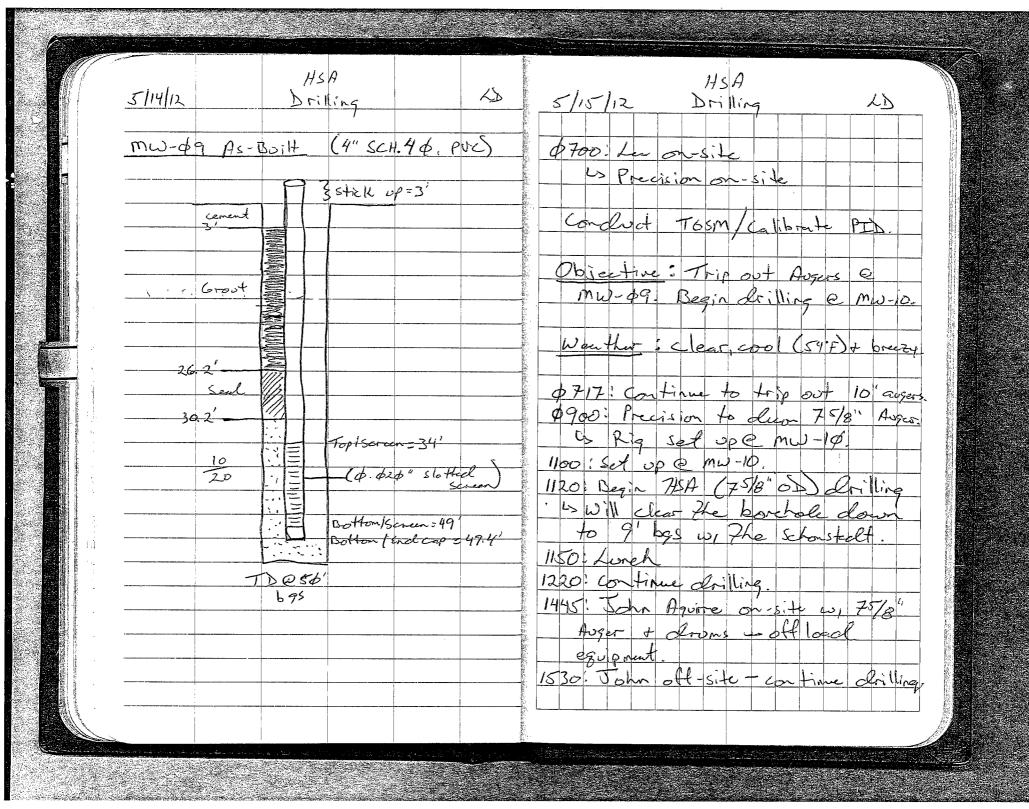
HS19 LD Drilling Drilling 5/11/12 5/11/12 MW-07 AS-1351H 84"SCH40-AZ Pale: Spoke w, Willie (Chevron) (575) 209-0003. He will P3 strek up = 31 be out after 3 pm today to spot utilitie. 1610: 10 @ MW-\$7 W1 10" Auger 450 b95. Ly brock out wooden plug + prep to install MW. AS-Built 1641: Well installed - backfilling we 10/20 Sand 1715-1730: Maintenane rig - world start. ( Dep" Statted 1818: Dickfill wy benforite 1/4" chies Botton/screen : 48 bgs I hydrate wil 10 gallons of water Botton / Engl cap = 48 4 bgs 1830: All crew off-sik.

HSA 5/12/12 2 Drilling 5/12/12 Drilling into position out to the rig. \$7000 Precision on-Site Ly Trip out 20' of HSA + decon 1020: Post tale dig \$ +4.5' bg -\$720: Lu on site - picked up ice clear area/boschole using the Conduct TGSM/Calibrate PID 1045: Begin 75A (75/8" a) drilling Objective: Mut w/ Willie (chevron) @ mw-da to go over their pipeline locations. HSA drill @ MW-\$8 + install 1140-1210 : Konch a well. 1600: TD MW-48@ 50' 495 (V = 385) 0750: Willie (Chevron) on-Site 4 Trip out 75/8" ASA & will Ly(575-269-\$d\$3) then over ream using the 10" HSA Les & Willie go to MW locations 1710! Soc Galemore on site. 8,9,+13 to see if there is 1830: Have our reared the borehale a conflict w/ their pipe line - (OK) down to 35' bas / clear up \$820. Willie off-site 4> All crew off-site Ly Precision is during auger. Note: MW-DB Sampled collected @ 1345 \$845; Mobe to MW-dB/Set UP. 0915! Support truck is stock in the (as discovery on \$/9/12), Cutting >100 1015: Support truck freed up / move trailer, PPM were drommed.

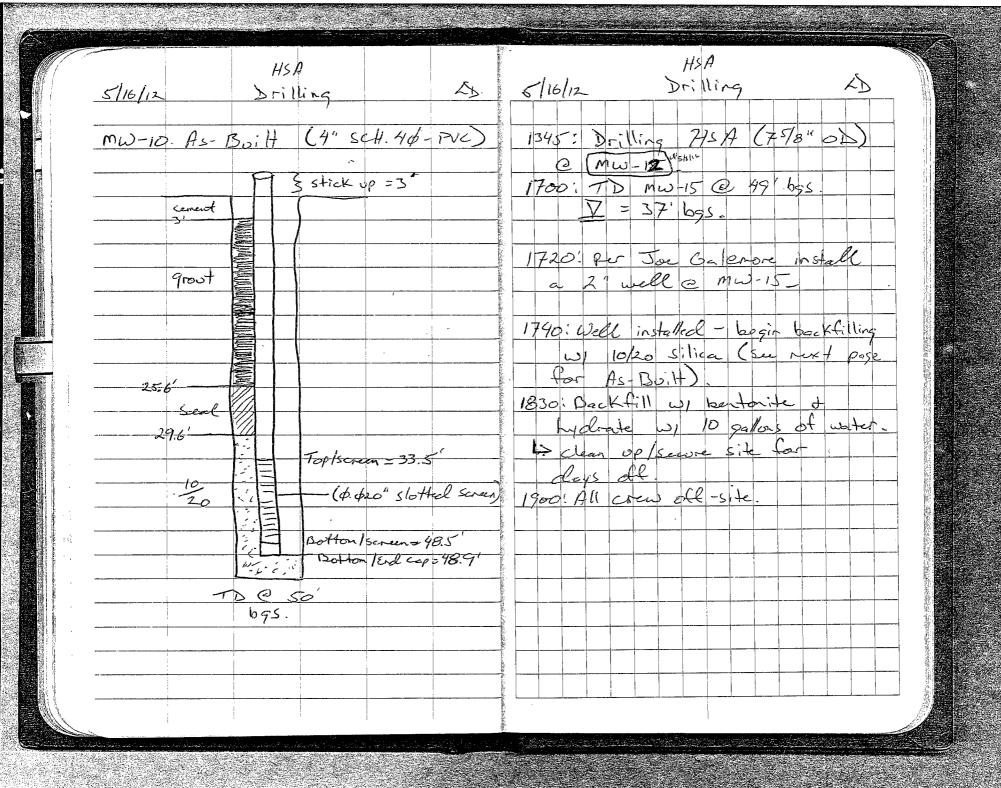


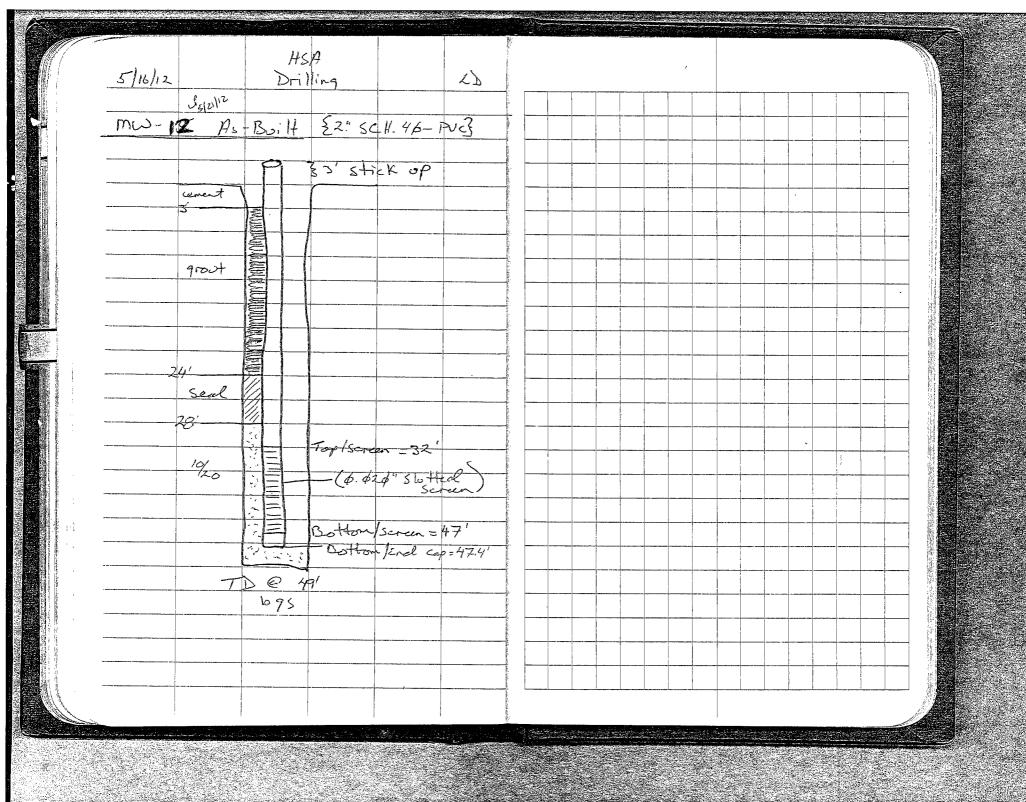
HSA HSA 5/13/12 Slisliz Drilling Drilling 1 1330: set up @ mw-69. 1800: Stop for the day - correct Is Precision off-sis - The support truck got stock for about 15 min. 1815: Lee off-site. 1420: Post hole dig e mw-d9 The Schonstedt was picking up Notes: something. We there opted to move us's south of 4 MW-49 sample collected a 1745 (as clercibed on 5/9/12) correct location + will posthole dig + // w/ schonstell. 2) Cottings >100 ppm were drammed 1445: Rob Sengebush on-site 1520: Hove cleaned mw- \$9 borehole to 6' bgs, will doill down to 10' bys + read agin w/ the Schonstalt 1540: Rob off-site 1600: Hove cleared to 10 695 w/ The Schonstell. - contine drilling wy 75/8" OD-HSA Hard drilling beginning e 9' bgs -Slow Orilling.

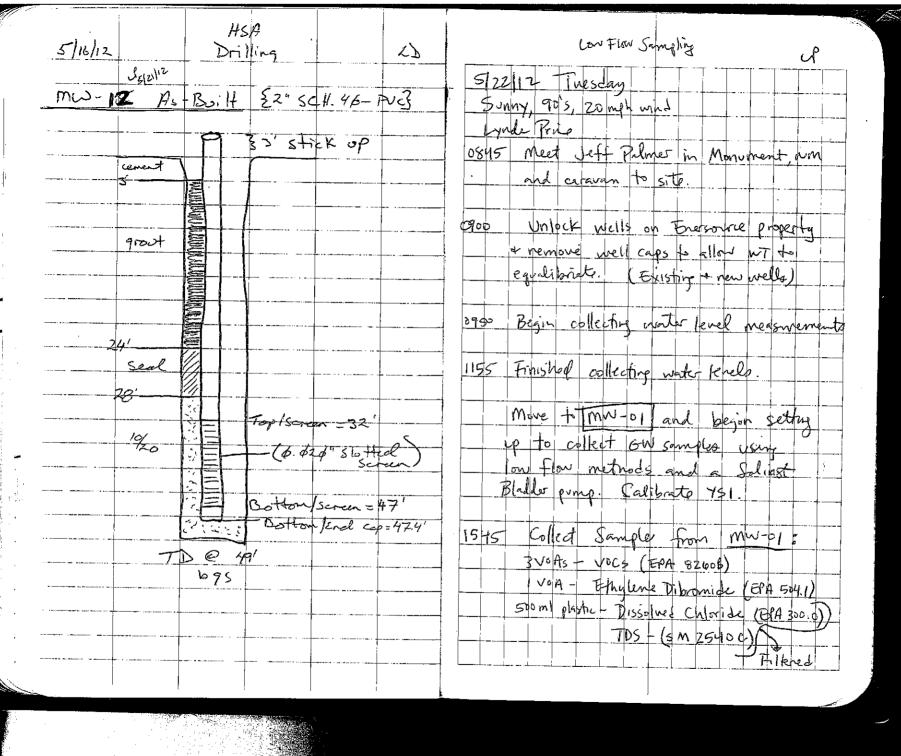
HSA 5/14/12 LD Drilling 5/14/12 Drilling 1220: Begin overeaming mw-69 (10"08) 0700: Lee on-site 1430! Well installed (See next page 45 Precision on-site for As Duilt & begin backfilling 41 10/22 Sand. Objective: Continue drilling @ MW-69 1500: Rig out of fuel-1510: Juan off-site to get fuel I install a well La & Alex to Land clear other Weather: Raining + 55°F. MW locations - (MW-10 & MW-15) Conduct TGSM/Calibrate PID 1625: Juan on-site \$711: continue 745A (75/8" 05) Note: There have been multiple drilling. lightning strikes over the past \$735: SLO (Somenaker) on-site Last lightning strick @ HE 1610 to GPS locations. \$745! Somemaker off-site. 1640: Continue bookfilling 6915: Shot down - Lightning 1745: Done for Hedry - Need \$922: Lightning to get the support front unstock. \$952: Continue Shrilling. 1750) All and off-site 1100: TD MW- d9 e' 50' bgs - Trip out 75/8 HSA + prep to overream 1150! Augers out Lo Lunch

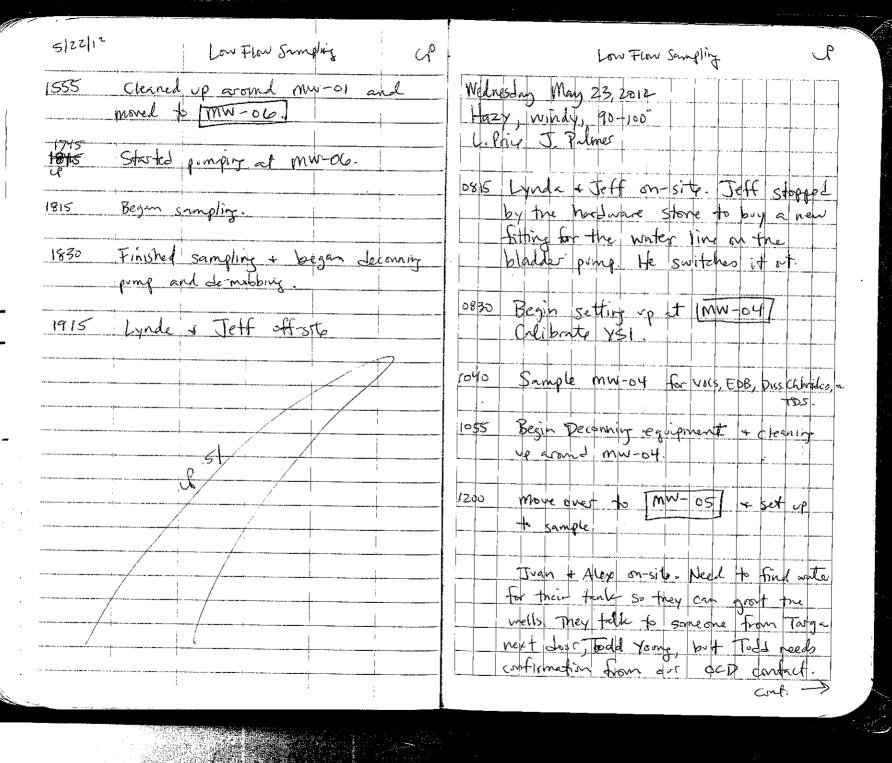


HSA HS A Drilling 5/16/12 5/15/12 Drilling \$700: Le on-site 1730: TD MW-10 @ 50' 695 (V = 38.5' La Precision on-site bgs). Begin to trip out Augers will overseam tomorrow w, 10" Augers Objective: Overcan Mw-10 001 Lo Alex to Secon 10" Augers. 10" OD + HSA + install well Desin drilling e MW-12- PEPEILL 1640: Out of water - Precision will get water in town tonight & finish dean in the alm. Conduct Tasm/Calibrate PID \$710: Precision finishes despring 1650: All crew off-site Auger \$ 300: Begin overreaming @ MW-10 (10" 0) Notes: Φ925: TD@ 50' 695 MW-10 sample collected Q, 1546 4- grap to install well o (as described on 5/9/12) from MW-10 ( see pert pose for 24-25 bgs) As + bbilt 1020: MW-10 installed begin back Cettings >100 ppn were drommed Filling w/ 10/20 sand. 1140 Filter pack of seal (hydrated w/15 gallons of water 1215 : clean up + rober to mw-15 





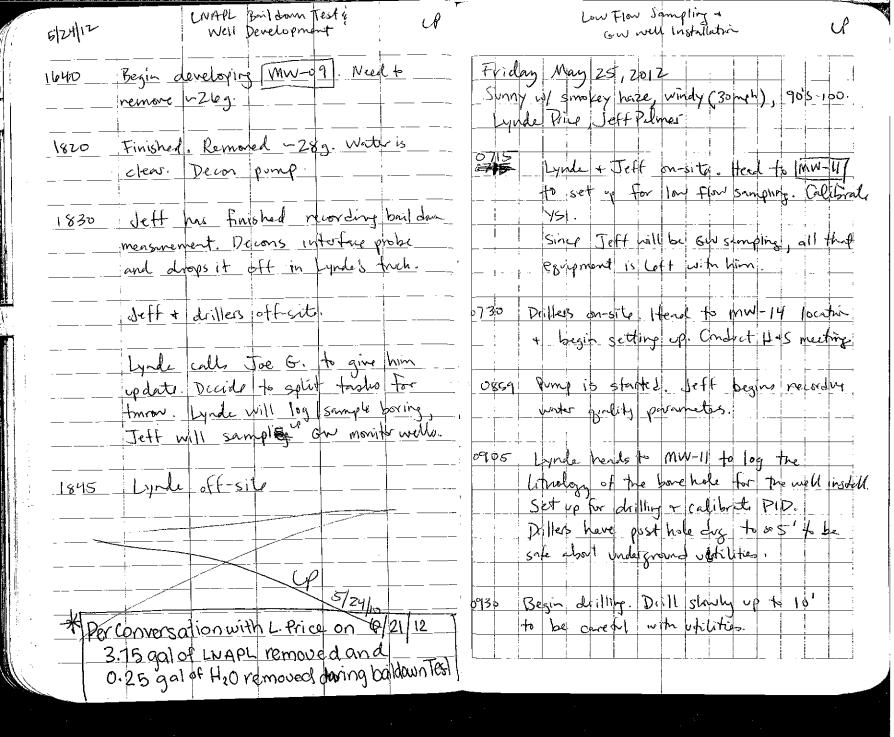


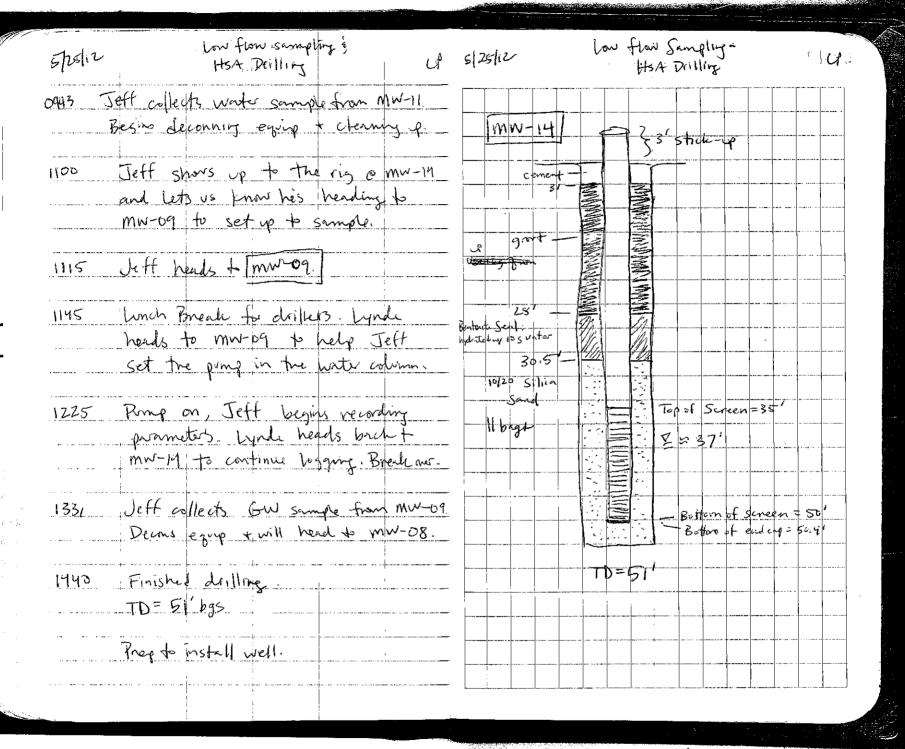


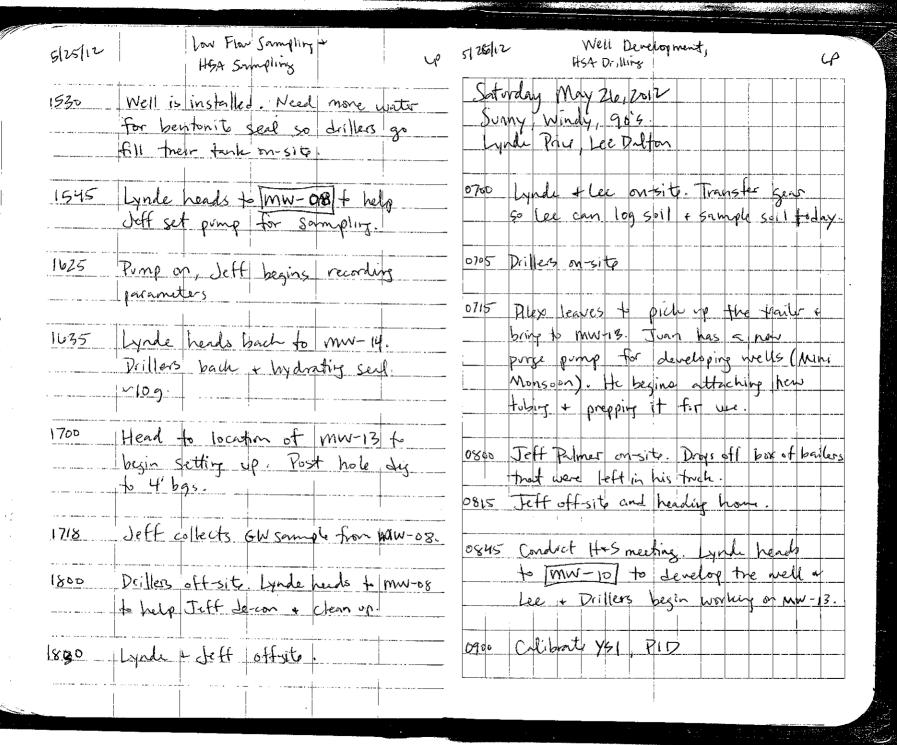
51 24h	LNAPL Brildown Test & Well Development	5/24/12	Well Development UP
	24, 2012 Thursday		
	my, windy (20-30 mph), 90's-100	[035	
Lyn	de Prix - Jeft Palmer		Monsoon pump from the dillers,
		.	they are performing the development.
0730 L	ynde + Jeff on-sit, head to MW-03		
	to begin LMAPL buildown test. Set up first		will remove 3 well casings of vita
			out and mersine witer grality
0745	Drillers misite Heal to MW-12 to pull auges 4		parameters (Temp, Cond, 4 pt) on til
	growt well.		They stabilize w/n 3 reading.
2923	growt well: Initial measurements: DTW: 40.84	  i	
	VIP: 39.02	1220	Finish Leveloping. Pump had to be
0830	Begin bail-down Note: 1+ 15 difficult		mende & trice so it took isnger from
***	to collect just product in the briler. Some		anticipated. Decon the pung +
4	water is in the bailer each time its		tubing & more to next well.
	dulled up. A 3" bailer is being used.		
A hadde		1310	Begin dekeloping mw-III. Need to
0915	Begin recovery. Jeff is recording result		remove & Dleg
	on date sheet. Once a minute for first		
k	minute once every 5 minutes for 30 minutes,	1423	Finished. Removed 30g. Water is clear.
EM-1	one every hour for a his He will be		Decor ging and more to next well
	there all day.		
0930	Hend to MW-07 to set up to	1455	Begin developing 19MW-08. Need to
	develop the well. Precision will levelop.		Begin developing MW-08. Need to nemone \$259.
*******	Calibrate fre YSI: Cond., pt. 4,7,10	1615.	Finished Removed = 30g. Water is clear
	1457 Ho 25 494		Dean pmp - more to next well.
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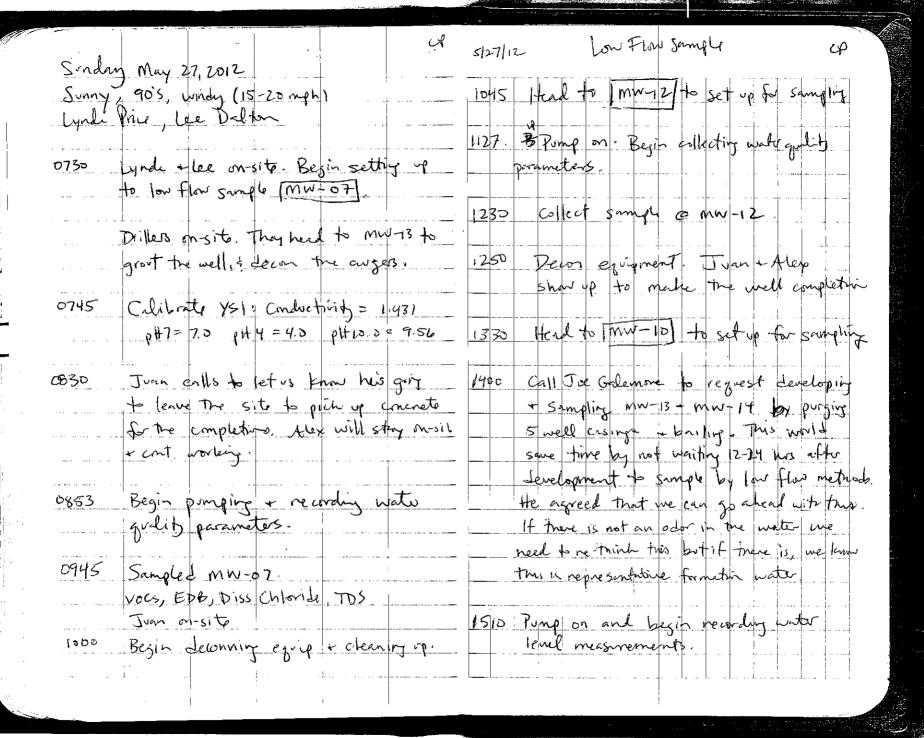
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Well Development & HSA Drilling Well Development ? UP 5/210/12 5/24/12 HSA Drilling MW-13 0715 Begin development. 23' still p Finished. Removed approvo (o) q. Flow rat of new pump was about 1 3/min Grat 23' Deconned pump = 451, packed up, mmed + mw-12. Begin development of mw-12 1115 Seel @ 24' Finished, Removed v 60g. Decorned Pump - 491. Silven Saul + 28 Head to MW-13. They nat at the 1230 10/20 - Top of Screen 32 water falsy ~ 37/38. Taking lively. Finish Lunch 1245 1430 Finished drilling well + begin Well install Bottom screen 47 47.4 1530 · Finished well install + startel TD=48 prepping for well completions. Will complete tomorrow. 1630 Lynde, Lee, drillers off-siti.



4 5/20/2 Develop & Sample SIM12 : Low Flow Sample Monday May 28,2012 1550 Collect sample Sunny, Windy 70's Lynde Price 1605 Begin deconning equip Decide to set up to collect Equip 0800 Upl on-sto Set up of [mw-13. Kinsite sample from Bladder Pump Calibrated YS1. Will develop w/ pump " use bailer to sample. 1630 Juan a Alex (Precision) stop by to 0900 Realised Lee had the bailers in the talk about tomorrow's plan @ VC#1 back of his truck so called him a Collect Egrip Rinsto sample made a plan to pick them rp. Pack up 0915 Lynde off-site 1800 Lynda, Lee, Drillers loff-site 1030 lynd on-site up briles 1015 Collect water 'evel measurent: 38.45' 1023 Pine on Mr galia balbind = 40.32, Pump rate <1 g/min 120 Collect Sample Approx 605 pursus VOCS, FDB, Diss. Chloride, TDS Decon + more + [mw-14]

9/26/12	Develop & Sample	υp	
1353	Pump on at MW-14.		
1540	allert Sampy Approx 40 g pursuals Floresty has slowed shirtly.		
1555	Deron + chean up. Precision bad on site and builds last well com		
1615	Dring around to do a drum con	:	
	from the new wells, laked wells, + bock new wells.	·	
	mw-07 = 4 druns mw-08 = 9 druns mw-09 = 2 druns		
·	mw-10 = 4 drins mw-11 = 4 drins		
	mw-12=3 druns mw-13=2 drung mw-iy=2 drung		
	Total = 25 drums.  Divms are labeled:		
1800	Lynd Hee, + dollers off rate.		
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PROJECT NAME:	Enersource_				_ WELL NO	o.: MW	-07	_
PROJECT NO.:		DATE: 5/24	12_	FORM COM	MPLETED E	14: <u>P</u>		-
		WELL CON	STRU	CTION				
TOTAL DEPTH BE	ELOW MEASURING ELOW LAND SURFA DR: UYES UNO	ACE (BLS) (FT): PADLOCK NO.:	50	WELL D WELL D	IAMETER (I	NSIDE (IN): DUTSIDE (II	ч" v):	-
SAND PACK INTE	RVAL (BLS) (FT): <u>2</u> <b>W</b> /	ATER VOLUM				r): <u>418 b</u>	3 - 33 byr	-
MEASURING POIL WATER LEVEL IN INITIAL WATER L LINEAR FEET OF LINEAR FEET SA	EASUREMENT: S NT: STRUMENT USED: EVEL (BMP) (FT):  WATER: [3.1] TURATED GRAVEL are to be calculated	Heron IP  38.89  PACK:  prior to developme	ent	Well Casin Sand Pack Drilling Flu TOTAL	ig (	FT <sup>3</sup>	R VOLUME	
METHOD OF DEV WATER VOLUME TIME DEVELOPM NOTE: Developm	TELOPMENT: PUTO BE REMOVED (ENT STARTED: 10 ent is to be performe	DEVELOPME TSE Promp GAL): 25,95 GAL): 25,95 d in accordance with	( Min WATER TIM	VOLUME A ME DEVELO	CTUALLY FOR PMENT CO	REMOVED ( )MPLETED:	(GAL): <u>329</u> 1220	-
	WA	ATER QUALIT	Y INS	rumen	TS			
DATE/TIME	INSTRUMENT	SERIAL NO.		BRATION FORMED	TEC	H	COMMENTS	
5/24/12	451		e (d. edestes et jero	H 4,7,10	Y	1	oran e Silvan III de Senta de Lo	_
			Ì				· · · · · · · · · · · · · · · · · · ·	

## WATER QUALITY READINGS DURING DEVELOPMENT

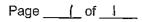
DATE/TIME	TOTAL WATER PURGED (gal)	TÉMP Sx°C □°F	CONDUCTIVITY (µS)/cm	рН	TECH	COMMENTS	
5/24/12 1204	279	23.53	7487	7.34	U	slight ador, mi	kg
1213	30 g	23.50	7499 7500	7.39		clas shight be	
	711	23.00	7 500	1.70		clear, slight h	od.

COMMENTS:_	We	had	₽	fix tre	pump	twice	Lucine	_
				•	4		ر -	

338.87 13.11 4 .04

13.11 Y . 04 8.65 × 25.9

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PROJECT NAM	1E: Enersowi	e		WELL NO .: YWW - 08						
PROJECT NO.		DATE: 5	124/12	FORM COMPLETED BY:						
		WELL	CONSTR	UCTION	Ī					
				_						
	BELOW MEASUR					AMETER (I	,			
	BELOW LAND SU									
WELL PROTECTOR: DYES DNO PADLOCK NO.: WELL DIAMETER OUTSIDE (IN): SAND PACK INTERVAL (BLS) (FT): 29.5 - 50 bys SCREEN INTERVAL (BLS) (FT): 48.5 - 29.5 bys										
SAND PACK IN	ITERVAL (BLS) (F	T): 29.5-50 F	<u>sg≁</u> scr	EEN INTER	RVAL (BLS	s) (FT): <u> 48</u>	15-1915 bga			
		WATER V	DLUME CA	ALCULA	TION					
DATE/TIME OF	MEASUREMENT:				) TENA	w w	ATER VOLUME			
	OINT:				ITEM.	F	T <sup>3</sup> GAL			
	. INSTRUMENT US		ιρ	Well Ca	asing		30.000.000.000.000			
	R LEVEL (BMP) (FI			Sand P	ack					
	OF WATER: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Drilling	 Fluids					
LINEAR FEET	SATURATED GRA	VEL PACK:		TOTAL						
NOTE: Quantit	ies are to be calcul	ated prior to des	velopment			—— . J				
WATER VOLUM	oment is to be perfo	Purge Purp ED (GAL): 525 1455	Sg WATE - lance with Sta	M\$\$\$\$\$\) ER VOLUMI TIME DEVE	E ACTUAL LOPMEN		(ED (GAL): 32 g			
DATE/TIME	INSTRUMEN	T SERIAL		LIBRATION REORMED		ТЕСН	COMMENTS			
	Y51		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
							49			
	WATER QU		ADINGS D	URING I	DEVELO	OPMENT				
DATE/TIME	TOTAL WATER PURGED (gal)	TEMP Ç⊡°C ⊡°F	CONDUC (μS	}	рΗ	TECH	COMMENTS			
145	279	23.66	2170	5	7,45	<u></u>	Clear, no ador, no sh	eer		
1618	289	22,41	2121	5	7.24	٩	11			
J 621	29/9	27.01		3	7.27	A	F 1			
1624	309	21.96	2115	1	7.26	4	PI			
COMMENTS:										



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PROJECT NAM	1E: Enersour	u			WELL NO.: MW -09						
PROJECT NO.:		DATE: <u>5</u>	24/12	FORM C	WELL NO.: WW -09  FORM COMPLETED BY:						
		WELI	CONS	<b>TRUCTION</b>					-		
TOTAL DEPTH	BELOW MEASUR	ING POINT (BI	MP) (FT): <u>~_</u>	53' BORI	EHOLE DIA	METER (II	٧):				
	BELOW LAND SU							410			
WELL PROTEC	TOR: DYES DN	O PADLOCK	NO.:	WEL	L DIAMETE	R OUTSID	E (IN):_				
SAND PACK IN	TERVAL (BLS) (F1	Γ):	s	CREEN INTER	RVAL (BLS)	(FT): <u>34</u>	- 49				
		WATER V	OLUME	CALCULA	TION						
DATE/TIME OF	MEASHDEMENT:	11/40	5/24/12			· li w	ATER V	OLUME .	]		
DATE/TIME OF MEASUREMENT: ) しょう 5/24)(2 MEASURING POINT: ELEV.:					ITEM	52	r <sup>3</sup>	GAL			
WATER LEVEL	INSTRUMENT US	ED: Herr	119	Well Ca	asing	70.000.00	enger trown	<u></u>	ĺ		
INITIAL WATER	R LEVEL (BMP) (FT	r): 39.49	*	Sand P	ack						
LINEAR FEET (	OF WATER:	3.51'		Drilling	Fluids						
LINEAR FEET S	SATURATED GRA	VEL PACK:		_ TOTAL		_					
NOTE: Quantiti	es are to be calcula	ated prior to de	velopment								
WATER VOLUN	EVELOPMENT:	ED (GAL): <u>〜 &gt;</u> 	- WA	TIME DEVE	E ACTUALL LOPMENT	COMPLET	ED (GA	L):	<i>;</i> :		
		WATER QI	JALITY I	NSTRUME	ENTS				1		
DATE/TIME	INSTRUMEN	T SERIAL		CALIBRATION PERFORMED		ECH	со	MMENTS			
5/24/12	YSI		0	onl, plf 4, 7,10	) <u>4</u>		Cond:				
							plt 4:				
	WATER QU	JALITY RE	ADINGS	DURING I	DEVELO	PMENT		- 7.3 : 9.56			
DATE/TIME	TOTAL WATER PURGED (gal)	TEMP □°C □°F	(	UCTIVITY μS)	рН	TECH	co	MMENTS			
1810	26.5	24.00	2481		7.01	<u> </u>	cleur,	, , , ,	o sheer		
1817	~27	22.59	249		7.00						
1810	~27.5	22,41	248		6.97			Li			
1819	· 28	22.50	248	160	6.92			l)	l		
COMMENTS:		·									



Page of _	
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PROJECT NAME: LINEIST	sine		WELL NO.:_\	MW-10					
PROJECT NAME: Line 18th	DATE: 5/26/	FORM CO	MPLETED BY:_	<u> </u>					
	·								
	WELL CONS	STRUCTION							
TOTAL DEPTH BELOW MEAS	SURING POINT (BMP) (FT):	53 BOREH	IOLE DIAMETER	RIN: 4"					
TOTAL DEPTH BELOW LAND	SURFACE (BLS) (FT):	50' WELL 0	DIAMETER INSID	DE (IN):					
WELL PROTECTOR: DYES									
SAND PACK INTERVAL (BLS)									
0,000,000,000	, (, · )		, (323) (, .)						
WATER VOLUME CALCULATION									
DATE/TIME OF MEASUREME	NT: 5/2012			WATER VOLUME					
MEASURING POINT:			EM .	FT <sup>3</sup> GAL					
WATER LEVEL INSTRUMENT	USED: Heron 19		Well Casing						
INITIAL WATER LEVEL (BMP)	(FT): 37.84°	Sand Pac	k						
LINEAR FEET OF WATER:		Drilling Flu	uids						
LINEAR FEET SATURATED G	RAVEL PACK:	TOTAL							
NOTE: Quantities are to be call	lculated prior to developmen	t	· ·						
	DEVELOPMEN								
METHOD OF DEVELOPMENT	: Yurge pump +	swyng 1	Mini Mila	<u>™</u>					
METHOD OF DEVELOPMENT WATER VOLUME TO BE REM	IOVED (GAL): 30 g V	VATER VOLUME A	ACTUALLY REM	OVED (GAL): 🔼 ا					
TIME DEVELOPMENT START	ED: 0915	TIME DEVELO	DPMENT COMP	LETED: 1034					
NOTE: Development is to be p	erformed in accordance with	Standard Operatir	ng Procedure						
	WATER QUALITY	INSTRUMEN	ITS						
		CALIBRATION							
DATE/TIME INSTRUM	IENT SERIAL NO.	PERFORMED	TECH	COMMENTS					

### WATER QUALITY READINGS DURING DEVELOPMENT

_	DATE/TIME	TOTAL WATER PURGED (gal)	TEMP YE'C □°F	CONDUCTIVITY (µS)/cm	рН	TECH	COMMENTS	withshiphy
5/2	12 1000	~50	22.40	19414	6.55	S	Slight HCody,	clear, no
	१८७१	v 54	22.04	19539	6.64	·	1.	Skeen
	1027	×57	21.01	19558	10.01		• (	
	1029	~59	22.05	19560	6.68		L t	

COMMENTS:_	Precision	bought a new	s Mins Monsoon	so flow moteris	gricher - 19/min
		ne developmen			,



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PROJECT NAME: FARSOWIL	WELL NO	MW-II
PROJECT NO.: DATE: 514/12	FORM COMPLETED BY	: R
WELL CONSTRU	CTION	
TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT) - 53		
TOTAL DEPTH BELOW LAND SURFACE (BLS) (FT): 50'	WELL DIAMETER INS	SIDE (IN):
WELL PROTECTOR:   YES  NO PADLOCK NO.:		
SAND PACK INTERVAL (BLS) (FT): SCREI	EN INTERVAL (BLS) (FT):	
WATER VOLUME CAL	CULATION	
DATE/TIME OF MEASUREMENT:		WATER VOLUME
MEASURING POINT: ELEV.:	ITEM	FT <sup>3</sup> GAL
WATER LEVEL INSTRUMENT USED: HERON 1P	Well Casing	- doi: 1
INITIAL WATER LEVEL (BMP) (FT): 31.49	Sand Pack	
LINEAR FEET OF WATER: (3.5)	Drilling Fluids	
LINEAR FEET SATURATED GRAVEL PACK:	TOTAL	
NOTE: Quantities are to be calculated prior to development		<u>,                                    </u>
DEVELOPMENT CI METHOD OF DEVELOPMENT: Porce Promp (Mini Mon WATER VOLUME TO BE REMOVED (GAL): > 20 2 WATER TIME DEVELOPMENT STARTED: 1310 TIME	RITERIA	
WATER VOLUME TO BE REMOVED (GAL): ₹ 24 3 WATER	VOLUME ACTUALLY RE	MOVED (GAL): 30 g
TIME DEVELOPMENT STARTED: 1310 TII	ME DEVELOPMENT COM	PLETED: 1423
NOTE: Development is to be performed in accordance with Stand	ard Operating Procedure	
WATER QUALITY INS	TRUMENTS	
DATE/TIME INSTRUMENT SERIAT NO CALI	BRATION TECH	COMMENTS
and the state of the second of the figure of the state of the second to the second to the second the second to	off 4,7,10 cf	grod

#### WATER QUALITY READINGS DURING DEVELOPMENT

	DATE/TIME	TOTAL WATER PURGED (gal)	TEMP XI°C □°F	CONDUCTIVITY (μs)	рН	TECH	COMMENTS	
HH 51	21/12 1415	27 9	23.14	13732	7.35	cp	slight Itc odor, no	sheen clear
,,,,,	1414 2	0 22 3	23.26	13723	7.13		w .	
	1420	299	23.10	13722	7. VI		ŧ ė	
	1413	30a	23.07	13717	7.10	2		
		<del>-                                    </del>	· · · · · · · · · · · · · · · · · · ·					,

COMMENTS:	



Page	of

INITIAL WATER LEVEL (BMP) (FT): 38.99  LINEAR FEET OF WATER: 13.01  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Porge fung & Surging (Mini Monsoon fung)  WATER VOLUME TO BE REMOVED (GAL): WATER VOLUME ACTUALLY REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1218
WELL CONSTRUCTION  TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 52 BOREHOLE DIAMETER (IN): 52 WELL DIAMETER INSIDE (IN): 21 WELL PROTECTOR: DYES DNO PADLOCK NO.: WELL DIAMETER OUTSIDE (IN): SAND PACK INTERVAL (BLS) (FT): SCREEN INTERVAL (BLS) (FT): WATER VOLUME CALCULATION  DATE/TIME OF MEASUREMENT: 52/1/2 1/00 MEASURING POINT: ELEV: WATER LEVEL INSTRUMENT USED: WATER LEVEL (BMP) (FT): 38-99 Sand Pack  LINEAR FEET OF WATER: 13 0 Drilling Fluids  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Programmer Surgical (Mini Monsoon Purp)  WATER VOLUME TO BE REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1318
WELL DIAMETER INSIDE (IN): 2/  WELL PROTECTOR: DYES DNO PADLOCK NO.: WELL DIAMETER INSIDE (IN): SAND PACK INTERVAL (BLS) (FT): SCREEN INTERVAL
WELL DIAMETER INSIDE (IN): 2/1  WELL PROTECTOR: YES NO PADLOCK NO.: WELL DIAMETER INSIDE (IN): 2/1  WELL PROTECTOR: YES NO PADLOCK NO.: WELL DIAMETER OUTSIDE (IN): SAND PACK INTERVAL (BLS) (FT): SCREEN INTERVAL (BLS) (FT): SCR
WELL PROTECTOR: DYES DO PADLOCK NO.: WELL DIAMETER OUTSIDE (IN): SAND PACK INTERVAL (BLS) (FT): SCREEN INTERVAL (B
WATER VOLUME CALCULATION  DATE/TIME OF MEASUREMENT: 5/24/12 1/00  MEASURING POINT: ELEV: WATER VOLUME  NATER LEVEL INSTRUMENT USED: STATELED IF  NITIAL WATER LEVEL (BMP) (FT): 38.99  LINEAR FEET OF WATER: 13.01  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: PVICE Pump & Surgin (Mini Monson Pump)  NATER VOLUME TO BE REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1218
WATER VOLUME CALCULATION  DATE/TIME OF MEASUREMENT: 5/24/12 1/00  MEASURING POINT: ELEV.: FT3 GAI  WATER LEVEL INSTRUMENT USED: Satisfification 19  NITIAL WATER LEVEL (BMP) (FT): 38.99  LINEAR FEET OF WATER: 13.01  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Purch fump in Surgice (Mini Monsoon fump)  WATER VOLUME TO BE REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1218
MEASURING POINT: ELEV.: Well Casing  NITIAL WATER LEVEL (BMP) (FT): 38.99 Sand Pack  LINEAR FEET OF WATER: 13.01 Drilling Fluids  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Purce fung & Surging (Mini Monsoon fung)  WATER VOLUME TO BE REMOVED (GAL): WATER VOLUME ACTUALLY REMOVED (GAL): [IME DEVELOPMENT COMPLETED: 1218]
MEASURING POINT: ELEV.: Well Casing  WATER LEVEL INSTRUMENT USED: Stand Heron [P]  INITIAL WATER LEVEL (BMP) (FT): 38.99 Sand Pack  LINEAR FEET OF WATER: 13.01 Drilling Fluids  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Prize from a Surgical (Mini Monsoon from p)  WATER VOLUME TO BE REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1218
WATER LEVEL INSTRUMENT USED: Stand Flector IP Well Casing INITIAL WATER LEVEL (BMP) (FT): 38.99 Sand Pack LINEAR FEET OF WATER: 13.01 Drilling Fluids LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Price from a Surgical (Mini Mension from p) WATER VOLUME TO BE REMOVED (GAL): TIME DEVELOPMENT COMPLETED: 1218
NITIAL WATER LEVEL (BMP) (FT): 38.99  LINEAR FEET OF WATER: 13.01  LINEAR FEET SATURATED GRAVEL PACK: TOTAL  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Purge fump & Surging (Mini Monsoon fump)  WATER VOLUME TO BE REMOVED (GAL): WATER VOLUME ACTUALLY REMOVED (GAL): 10.18
Drilling Fluids  INEAR FEET SATURATED GRAVEL PACK:  NOTE: Quantities are to be calculated prior to development  DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Prize from a Surging (Mini Monsson from a)  NATER VOLUME TO BE REMOVED (GAL):  TIME DEVELOPMENT STARTED: 1115  TIME DEVELOPMENT COMPLETED: 1218
DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Purge fung & Surging (Mini Monsoon fung)  WATER VOLUME TO BE REMOVED (GAL): TO WATER VOLUME ACTUALLY REMOVED (GAL): 1000 TIME DEVELOPMENT COMPLETED: 1218
DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Porge fomp or Surging (Mini Monsson fomp)  NATER VOLUME TO BE REMOVED (GAL): T WATER VOLUME ACTUALLY REMOVED (GAL): COMPLETED: 1218
DEVELOPMENT CRITERIA  METHOD OF DEVELOPMENT: Porge fomp or Surging (Mini Monsoon fomp)  VATER VOLUME TO BE REMOVED (GAL): T WATER VOLUME ACTUALLY REMOVED (GAL): COMPLETED: 1218
NOTE: Development is to be performed in accordance with Standard Operating Procedure  WATER QUALITY INSTRUMENTS
DATE/TIME INSTRUMENT SERIAL NO. CALIBRATION TECH COMMENT
보는 하는 경기 가요한다. [18]
The first of the second of
WATER QUALITY READINGS DURING DEVELOPMENT
WATER QUALITY READINGS DURING DEVELOPMENT  DATE/TIME TOTAL WATER TEMP CONDUCTIVITY PH TECH COMMENT
WATER QUALITY READINGS DURING DEVELOPMENT  DATE/TIME TOTAL WATER TEMP CONDUCTIVITY PH TECH COMMENT  1214 56.5 73.45 21200 6.90 UP clear, 5164
WATER QUALITY READINGS DURING DEVELOPMENT  DATE/TIME TOTAL WATER TEMP CONDUCTIVITY PH TECH COMMENT  PURGED (gal) PC PF (µS)



Page of
WELL DEVELOPMENT & Sampling
PROJECT NAME: ENERGONNE WELL ID: MW-13 PROJECT NO.: DATE: 5/28/12 FORM COMPLETED BY: UP
WELL CONSTRUCTION
WELL TOTAL DEPTH - FEET BELOW TOP OF CASING (FT, BTOC): 51' BTOC  BOREHOLE DIAMETER (FT): 2"  WELL INNER DIAMTERT (FT): 2"  SCREEN INTERVAL (FT, BTOC): 32-47 bp = 35-50' bTOC
WATER VOLUME CALCULATION
DATE/TIME OF MEASUREMENT: 5/28/12 1015 WATER LEVEL INSTRUMENT USED: Heron IP WATER LEVEL (FT, BTOC): 38,45 LINEAR FEET OF WATER (FT): 12-55
PURGE VOLUME CONVERSIONS (Use Well Casing diameter to determine Volume/Linear Foot)
1" = 0.04   1.5" = 0.09   2" = 0.17   3" = 0.38   4" = 0.66   6" = 1.5   8" = 2.6   10" = 4.1
1 well casing volume = Volume/Linear Foot x Water Column Height

	DĖVE	LOPME	NT CRITER	łΙΑ
METHOD OF DEVELOPMENT:	Pumping	Mini	Mongoon 1	-4-

METHOD OF DEVELOPMENT: Pumping (Mini Monsoon) + Bailing
WATER VOLUME TO BE REMOVED (GAL): 4.4 WATER VOLUME ACTUALLY REMOVED (GAL): 40

TIME DEVELOPMENT STARTED: 1023

TIME DEVELOPMENT COMPLETED: 1155

#### **WATER QUALITY INSTRUMENTS**

DATE/TIME	INSTRUMENT	SERIAL NO.	CALIBRATION PERFORMED	TECH	COMMENTS
5 28 2	15		Cond, pt 4,7,10	UP	Cond=1413
			/'		pH7=7.0

Sample Method: Bailing Sample Timp: 1210 Find WL: 38:45 @ 1240



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## WATER QUALITY READINGS DURING DEVELOPMENT

the string

DATE	TIME	VOLUME (gal)	TEMP	SP. COND (µS/CM)	рН	CONDITION	COMMENTS
5/24/12	1142	52.5	23.29	24737	6.51		Hz odor nosh
	1145	55	22.53	24534	6.44	-	clear
	1148	58	22.22	24523	6.43		. (
	1151	59	22.07	24504	6.43		
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	<del></del>				<u> </u>		

COMMENTS:_	WL	dring	purging =	40.351	 
		-			



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## WELL DEVELOPMENT & Sampling

***************************************			· · ·	<u>. 8</u>
PROJECT NAME: Enersoure	<u>.                                    </u>	WELL	ID: WW-1	4
PROJECT NO.:  FORM COMPLETED BY:		DATE:	5/28/12	<u> </u>
TOTIM COM LETEBBI.	_			
WELLC	ONSTRUCTIO	N	•	
WELL TOTAL DEPTH - FEET BELOW TOP OF CAS BOREHOLE DIAMETER (FT): WELL INNER DIAMTERT (FT): SCREEN INTERVAL (FT, BTOC): 50				
WATER VOL	JME CALCUL	ATION		
DATE/TIME OF MEASUREMENT: WATER LEVEL INSTRUMENT USED:	345 term 1P			
WATER LEVEL (FT, BTOC): 39.14				
LINEAR FEET OF WATER (FT): 13,86				
PURGE VOLUME CONVERSIONS (Use Well of	casing diameter	to determine	Volume/Line	ear Foot)
1" = 0.04   1.5" = 0.09   2" = 0.17   3" = 0		6" = 1.5	8" = 2.6	10" = 4.1
1 well casing volume = Volume/Linear Foot x Wa	ter Column Heigh	nt		
				•
	MENT CRITER			
METHOD OF DEVELOPMENT: Porce Pong	(Mini Mons	From ) & B	atling.	
WATER VOLUME TO BE REMOVED (GAL):			•	
TIME DEVELOPMENT STARTED: 1353	. TIME DEV	VELOPMENT (	COMPLETED:_	1530
	•			
MATERIOUA	ITV INICTOIIS	JENTO		

### WATER QUALITY INSTRUMENTS

INSTRUMENT	CALIBRATION PERFORMED	TECH	COMMENTS
451	Cond, pH 4,7,10	q	Cond=1.413, ph 4=42, ph 7=7.0
,			pH10 = 9.55

Sample Time: 1540 Final WL: 39.16 Note: Well completion was not finished when well was developed + sampled. Too was cut affered as or measurement might change.



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# MW-14

## WATER QUALITY READINGS DURING DEVELOPMENT

	T	VOLUME		02.0015		T
DATE	TIME	(gal)	TEMP	SP. COND (μS/CM)	pН	CONDTION
5/28/12	1513	50	23-34	19413	7.16	Hodor, clear, no sheen
, ,	1517	53	22,72	19248	6.93	h
	1520	55	22-54	19304	6.75	- (
	1573	57	22.51	19331	6.75	
	1525	58.5	22-44	19357	6.72	ex.
	1527	UD	2248	19318	10.72	n
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Stabilization = Temp.  $\pm 1^{\circ}$ C, pH  $\pm 0.2$  units, Sp. Cond.  $\pm 10\%$ 

COMMENTS:	 	<u></u> _	 
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505-503-0389 Jum 505-503-9295 Alex 505-503-3925 John



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## MONITORING WELL GAUGING DATA

Project Name: Freesouth	Project No.:	
Water Level Instrument: Heron IP	Site:	

r	ı		1		<del>,</del>				· · · · · · · · · · · · · · · · · · ·	
WELL	DATE	TIME	ОЕРТН ТО	DEPTH TO	TOTAL	DESCRIPTION	GPS COORD	GPS COORD	GAUGER NAME	COMMENTS
			PSH (FT BMP)	WATER (FT BMP)	DEPTH (FT BMP)	OF MEASURING POINT	NORTHING	EASTING		
WM-04	5/22/12	0952		39.08	45.32					
MM-05	,	1000		38.52	45.34					
MW-03		1007	39.00	40.80						
MW-0Z		1023	39.47	39:48	45,76					
MW-66		1025		38:73	46.50					
MW-01		1041		37.94	44.43					
MW-03		川罗		40,24						
mw-09		1125	i	39.49						
MW-10		1130		37,91						
mw-li	į	1143	ļ	39.49						
MW-07		11,53		38 90						
			5 m mle (							
MW-02	5 23 2	21.62.60	39.48 4 <del>5-60</del>	40.00					<del> </del>	
MA 07	310710	1440	70-00	70.00					1	
mw-03	5/27/12	0900	39.03	40.76						
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5145 5 1 11			<u> </u>						<u> </u>	

BMP: Below Measuring Point

PSH: Phase Separated Hydrocarbon

Site	Enersowce	Monitoring Well IDNw -o
Date	5/22/12	Samplers L. Price, J. Palmes
Mawali wilayi da Garafi da da sa sa sa Maraja Maraja Sa sa sa		Monitoring Well Information
Diameter		Depth to Product
Total Dep		Depth to Water 37,94
Water Co	plumn Height 6.49	Screened Interval 27- 42' bgs
Depth of	Pump Solinst Bladder Pump Pump intake 41'	Purging Information  Water Quality Meter ソら ちちゃ мРら  Depth to water after pump insertion: 37.94
Calibration	on Performed Cond, pH 4,7,10	
Sample D	Date/Time 5/22/15 / 1545	Sample ID MW-0
	VOCS, EDB, Diss Chlorides, TI	BS.
Commen	ts:	

	Pumping	Water Level		Partes & Gr						t
	Rate (0.1-	(ft) (goal of	Volumeی	DO (mg/l)	ORP (mV)	Spc (μS/cm)	рН	Temp (C°)	Notes	1
Time	0.5 L/min)	<0.33')	Pumped (₺)	±10%	±10 mV	±3%	±0.1 unit		1000	1
1456	4.365 0 /mi			1.25	20.3	16536	6.89	22.13	Clear no sheen	م مراجع
1502	ţĸ	37.13		1.25	17.5	16516	6.95	22.21	11	1,
1504	V)			1.17	17.7	16556	7,01	22,03	<b>.</b> .	1
1505	ii	37.92	~ 1.25 g	(.11	17.9	16556	7.04	22.06	n	1
1509	ξĆ			0.96	17.8	16552	7,12	21.66	L <sub>A</sub>	1
1513	βĹ	37.93		0.84	16.5	165375	7.18	21.64	I.V.	1
1515	χf			0.79	15.0	16603	7.19	21.64	11	1
1519	14		- 25g	0.69	14.1	16557	7.26	21.74	υL	ĺ
1522	<b>ર</b> ા	27-93	7	0.62	14-8	16538	7.28	21.73	· · ·	İ
1528	ti .			6:53	17.2	16533	7.32	21.55	L ~	1
1532	it		~ 3.75q	0.46	18-1	16533	7-36	21.50	1.	1
1534	. ((		<del></del>	0.44	19.1	16510	7.36	21.53	-4	l
1836	£ (			0.42	19.6	15520	7.37	21.60		İ
1537	£ <	37.93		0.41	19.6	15518	7.38	21.82		1
1539			w 4.25	0.40	19.8	15520	7.38	21.72	N.	1
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Site Date	5/23/12	Monitoring Well ID MW-04
		Samplers U
Diamete		Monitoring Well Information
Total De	pth 45.32-	Depth to Product NA
	olumn Height 6-25	Depth to Water <u>39.ゅチ</u> Screened Interval
The second second	1997年,1987年,1997年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,19	
		Sample Information
Sample I	Date/Time 5/23/12 / 1040	Sample Information Sample ID WW-04
Sampler	3	
Sampler	JOCS, FAB, Dissolved	Sample ID MW-04
Sampler Analysis	JOCS, FAB, Dissolved	
Sampler Analysis	JOCS, FAB, Dissolved	Sample ID MW-04

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	Pumping	Water Level			ang king magang mgaka	and the second of the second	17.76		
	Rate (0.1-	(ft) (goal of	Volume	DO (mg/l)	ORP (mV)	Spc (µS/cm)	рН	Tomp (C°)	Notos
Time	0.5 L/min)		Pumped (L)	±10%	±10 mV	±3%	±0.1 unit	Temp (C°)	Notes
1032	.380 Ymin	the state of the s	Tamped (L)	and the second s					
1032	6 700 7min	·-·		8-30	200 Pol.7	20 658	6.69	21.79	clear, no steen
1038	t (	39.09		1.52	-9.6	20408	6.67	21.64	
		51.07		1.20	-14-9	20033	6.70	21.52	
1044	.,			0.97	-16.1	20024	6,75	2102	, <u>, , , , , , , , , , , , , , , , , , </u>
1044	``		< 2g	0.86	74.5	20027	6.76	21.57	<u> </u>
	- 10								
	Pompott:	39.09							
							,		
			· · · · · · · · · · · · · · · · · · ·						
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	-		-						
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Site <u>Enersoure</u> Date <u>5723/12</u>	Monitoring Well ID MW-05 Samplers P
	Monitoring Well Information
Diameter 9" Total Depth 45.34 Water Column Height 6,79"	Depth to Product Depth to Water Screened Interval  Purging Information
Type of Pump Solinist  Depth of Pump intake #2'  Calibration Performed Coul; pH4,7,10	Water Quality Meter YS   Depth to water after pump insertion: 38.55  Sample Information
Sample Date/Time 5/23/12 1445 Samplers U Analysis VOG, EDB, Disselve C	Sample ID MW-05
Comments:	
Signature Lynd J	Date 5/23/12-

MW-05

	Pumping	Water Level					The Stant		
	Rate (0.1-	(ft) (goal of	Volume Pumped (ﷺ)	DO (mg/l)	ORP (mV)	Spc (μS/cm)	рН	Temp (C°)	Notes
Time	0.5 L/min)	<0.33')	Pumped (t)	±10%	±10 mV	±3%	±0.1 unit		
1333	x*390	_5	≒ (9	6.01	-92-1	:2886	697	21.13	· · · · · · · · · · · · · · · · · · ·
1337				1.09	-91.9	12840	7.01	21.75	
1370		38.65	× 2 g	0.86	-85, 0	12836	7.52	Z1-81	
1343				0.71	-81-9	12842	7.04	Z1.81 Z1.76	
1346			32.5g	0.56	-76.8	12841	7.07	21.71	
			3				,		
	Dump o	ff:38.52							
	, 1								
								·	
							·		
							···		
								10-11	
							-		
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									· · · · · · · · · · · · · · · · · · ·
						<u> </u>			

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Site Date	Enersource s12112	Monitoring Well ID MW−0 φ Samplers
	The state of the s	lonitoring Well Information
Diamete ∓ Total De Water C		Depth to Product ~/A Depth to Water 38.73 Screened Interval
		Purging Information
	Pump Solingt Bladler Pomp Pump intake 42' on Performed Cont. pt 4,7,0	Water Quality Meter  \\( \forall \) \\ Depth to water after pump insertion: \( \frac{38.74}{} \)
		Sample Information
Sample Sampler	Date/Time 5/22/15 / 1715	Sample ID MW-06
Analysis		, TDS
Commei	nts: Pump made bubbling noises a meter were of though.	shile Lam-hole. Pump, rate + water quality

100 300	Pumping	Water Level						Bes E. Brank	
Time	Rate (0.1- 0.5 L/min)	(ft) (goal of <0.33')	Volume。 Pumped (挥)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (µS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
1745	0.150 Ymn	•		1.31	-110.2	21914	(0.89	24.71	clear, no sheen,
1748	0.250			1.84	-1140	21468	6.88	23,94	CIEM WIS STEELS
1752	٠,	38.95		[.]]		111429	6.89	23.40	
1755	در			1.02	-119.3 -139.5	20474	7.12	23.23	
1758	16.	3 <sub>%</sub> 75		0,80	-1428	20922	7,17	23.17	
1402	4.			0.69	-143.3	20420	7.22	22,77	
1805	4.6	t (		6.59	-140.2	20369	7.27	22.68	
1908	ž1	,,,,,		0.54	138,7	20372	7.28	22.36	
1811	į i			0.52	-139.0	20381	7.29	22.33	
1814	*\	- *	29	0.47	-139.0	20380	7,30	22.31	
Pun	p off	38.8							
			,						

no odor

Site Energonal Date G1212	Low-Flow Sampling Logs  Monitoring Well ID - 50111 - 7
	Monitoring Well ID MW-07
	The samples Cl + CD
Diameter ull	Monitoring Well Information
otal Depth	
/ater Column Height 14.10	Depth to Product P/A
May be a second	Depth to Water  Screened Interval  38-90
	- 18
pe of Pump Start of the N	Purging Information
pth of Pump intake 491	
libration Performed Cont. 14 4,7,10	Water Quality Meter YSI
	Depth to water after pump insertion: 38.89
역 설계 생활 발표는 계속 문에 기고 당했다. 생각 사람이 사람이 있다면 사람들이 살아 있는 것들은	Sample Information
nple Date/Time 5/27/12 0945	Sample Information
plers 12 0945	Sample ID my - Stat 853
lysis VOCS, EDB, DISS Chlorid	Sample ID MW-67 Start 853
T MAS CHANT	e , TDS
men <u>ts:</u>	
ture m	

Gas Tanks Pressur: 1675

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			(~)						
Time	Pumping Rate (0.1- 0.5 L/min)	Water Level (ft) (goal of <0.33')	<del>(ターは)</del> Volume Pumped (比)	DO (mg/l) ±10%	ORP (mV) ±10 mV	Spc (μS/cm) ±3%	pH ±0.1 unit	Temp (C°)	Notes
4900	<del>0.190</del>	3 <del>0.5°38</del> 5	D25 10	1.24	-48.1	7534	7.48	21.22	slight Hi odor
6903	Ø-4	38.98	<del>475</del> 2.2	4.70	-49.0	7523	7-47	21.26	II
6908	64	39.00	125 4.2	Ø. 39	-49.5	7583	7.06	21.38	ч
0912	<b>4</b> .4	39.00	5.8	4.30	-49. d	7494	7-45	21.31	et
\$912 \$915	ф.4	39.00	7-0	6.26	-48.8	7502	7.65	21.37	£t.
4922	ф.4	39.00	9.8	4.23	- 49.1	7517	7-45	21.49	ις
\$125	Ø-4	39.02	11.0	Ø-21	-42.6	7535	7.54	21.68	ec
Ø 925	<b>\$</b> 4	39.02	12.2	\$.18	-49.6	7524	7.06	21-69	11
¢ 933	Ø.4	39.00	14.2	Ø.17	-49.1	7503	7.44	21.71	el
0937	0.4	38-98	15.8	0-14	- 49.0	7442	7.04	21.69	در
				<del></del>					

Site <u>Grersow u</u> Date <u>5/25/1</u> 2	Monitoring Well ID ₩₩₽ 8	
Date 5(25)(2	Samplers Monitoring Well Information	ni mu
Diameter <sup>4</sup> <sup>10</sup>	Depth to Product المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة المارة الم	اکشیر ف
Total Depth 53'	Depth to Water 40.25	
Water Column Height ו א ביים ו	Screened Interval	
	Purging Information	
Type of Pump Solinst Bladler	Prof Water Quality Meter 751	
Depth of Pump Intake 46	Depth to water after pump insertion: 46,25	
II olingation longonood ( ox ) - 1 bi -	. 🛋	
Calibration Performed Cond., p.H.H.,	<del>, 10</del>	
Cambration Fenomied Cont., ptf-1,	, ശ Sample Information	er Eigis
	Sample Information	5 - 1 5 1 V S
Sample Date/Time 5(25(12 / /: Samplers	<del>,                                    </del>	4 - 1 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Sample Date/Time 5(25(12 //	Sample Information  7: 18 Sample ID MW-08	5 1 - <u>-</u> 15 - 5
Sample Date/Time <u>5(25(12 / /</u> Samplers	Sample Information	
Sample Date/Time <u>5(25(12 / /</u> Samplers	Sample Information  7: 18 Sample ID MW-08	5. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
Sample Date/Time 5(25(12 //) Samplers / Analysis	Sample Information  7: 18 Sample ID MW-08	
Sample Date/Time 5(25(12 //) Samplers / Analysis	Sample Information  7: 18 Sample ID MW-08	
Sample Date/Time <u>5{25 12 / /</u> Samplers / Analysis	Sample Information  7: 18 Sample ID MW-08	4

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53.25

	Pumping	Water Level							
	Rate (0.1-	(ft) (goal of	Volume	DO (mg/l)	ORP (mV)	Spc (µS/cm)	рН	Temp (C°)	Notes
Time	0.5 L/min)	<0.33')	Pumped (L)	±10%	±10 mV	±3%	±0.1 unit		
16128	<b>.</b> 340			·					
16:45			~ / GAL.	. 36	-40.5	18226	6.99	22.66	CLEAR/NO ODOR
16:49				,36 ,34 ,30	-33,0	18054	6.99	22.48	/ / / / / / / / / / / / / / / / / / / /
16:53			~ 2 GAL	, 30	-28,0 -28,9 -29.0	17933	6,29	22,76	
16:58			"	, 25	-28,9	17827	6.99	22,50	
17:01			~ 3 Gal.	23	-29.0	17786	6.99	22,43	
17:05				:20	-29.3	17609	6.99	22.41	
17:08				.18	-29.8	17710	6,99	22.36	
17:11			~ 4 GAL.	.16	-29.7	17651	6.99 6.99	22,29	
17:14				.15	-30.0	17583	6.99	22.29	
17:18				. 13	-30,6	17652	6,99	29.30	
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Site Date	5/25/12 Enersowel	Monitoring Well ID <u>mw−09</u> Samplers J€
	<b>M</b> oni	toring Well Information
Diameter_ Total De <u>pth</u> Water Column	۲ <sup>۱۱</sup> 53 <sup>1</sup> Height <i>13:5</i> 1	Depth to Product  Depth to Water  Screened Interval  24'-49
		Purging Information
Type of P <u>ump</u> Depth of Pump Calibration Per		Water Quality Meter ソらし  Depth to water after pump insertion: 3をまる
		Sample Information
Sample Date/T Samplers	ime 5/25/12 /13:31	Sample ID MW-09
Analysis		
Commen <u>ts:</u>		
	1 (1)	
Signature	mul	Date <u>5 25 N</u>

	Pumping	Water Level					<u> </u>	A. C. 1984 (1984)	general en en en en en en en en en en en en en
	Rate (0.1-	(ft) (goal of	Volume	DO (mg/l)	ORP (mV)	Spc (µS/cm)	рН	Tomp (C°)	Notes
Time	0.5 L/min)	<0.33')	Pumped (L)	±10%	±10 mV	±3%	±0.1 unit	Temp (C°)	140162
12:28	-290	40.00)	, diripod (L)		±10111 <b>V</b>	1070	±0.1 din		
12:47	- E Z 2 C		2/ 621	18	-21.2	23270	10.55	23,76	FORTY NO OBER
12:54			/ /	1/2	-24.8	23534	6.55	23.41	" NO SHEEN
12:58			-2 Gal.	.//	-94.1	23706	6:53	23.79	
13:03				.10	-24.1 -22.1 -21.2	23726	6.55	23.54	
13:07			~3 GAL	.08	-21.2	23733	6,56	23.76	
13:10				.07	-20.6	23728	6.56	23.50	
13:15				.07	-18.7	23701	6.56	23.42	
13:18			~4 Gal.	,06	-18.6	23622	6.58	23,48	
13:22				.06	-18.2	23703	6.59	23,52	
13: 25				.06	-17.4	23649	6,60	23.48	
13:28				105	-16,9	23638	6.60	23.41	
13:31			~5 GAL.	.06	-17.7	23626	6.60	23.61	
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Site <u>bhersource</u>	Monitoring Well ID	
Date <u>5/27/12</u>	Samplers CL, UD	
The state of the s	Monitoring Well Information	
Diameter	Depth to Product   ►/A	
Total Depth 53′ ๒ ซอ 50′ bgs Water Column Height	Depth to Water 37.93 Screened Interval 33.5 - 48.5	
Santana (h. 1841) 185 (1861) 1884 (h. 1956) - 1964 (h. 1964) -	Purging Information	
Type of Pump Solviet Bliller Pump	Water Quality Mete <u>r</u> У≤∫	
Depth of Pump intake אָץ בּיי בּיים	Depth to water after pump insertion: 37.93	
	Kmp on:1510	
<i>[</i>	Sample Information	
Sample Date/Time 5/27/12 / 1550	Sample ID Mw-16	
Samplers PLO /Analysis VOCS, EDB, Diss, Chlorides.		
Comments:		
1 1	l Ast	
Signature 5/27/12/1/2		

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WW-10

	Pumping	Water Level	The second secon							
	Rate (0.1-			DO (mg/l)	ORP (mV)	Spc (μS/cm)	рН	Temp (C°)	Notes	
Time	0.5 L/min)	<0.33')	Pumped (L)	±10%	±10 mV	±3%	±0.1 unit			
1520	0.2	37.94	2(4)	15.14	-39.5	18227	7.05	23.37	SIGHTHUDISCICE	Pes
1523	6,2	37-94	2.6	1.51	-63.0	18148	6.97	23.30	11	
1526	0.2	37.96	3.2	0.80	-64.6	18142	6.95	Z3: Z3	t =	
1529	0-2	37.96	3,8	0.75	-63.8	18334	6.91	23.25	1	
1532	02	37.94	4.4	6.74	-62.8	18393	6-87	23.32	C)	
1535	0.2	37.96	5.0	0.61	-62.1	18433	6.87	23.23	1,6	
1538	0-2	37.95	5,6	<i>ن پا.</i> ن	-61.7	18417	14.85	23.34	,,	
1541	0.2	37,95	4.2	6.27	-61.0	18407	6.84	23.32		
1544	0,2	37.97	6-8	0.25	-60.0	18773	6.83	23.59	- Flow tringh cell wis	in cell
1547	0-2	37.95	7-4	0.21	-58.8	18787	6.82	23.47		
	Pump off =	37.94								

Site	Enersource	Monitoring Well IDMW⁻-I I	
Date	5/25/12	Samplers JP	
	P. C.	onitoring Well Information	
Diamete		Depth to Productベ/舟	
Total De	<u> </u>	Depth to Water 39.50 Screened Interval 4	
water C	Column Height 45, 13.50	Screened Interval 4	
		Purging Information	
Type of	Pump Solinst Bladle Pump of Pump intake 46'	Water Quality Meter ソラ (	
		Depth to water after pump insertion:3৭.৮০	
Calibrat	ion Performed y51 - Cond, pH 4,7,10	Puny Start 859	
Alleman made in the second		Sample Information	Samuel Samuel
Sample	Date/Time 5/25/12 /09:43	Sample ID MW-I (	
	rs JP		
Analysis	vocs, EDB, Dissolved Chlo	rides + IDS	
		Filterel, 250 M plashi	
Comme	nts:		
	1 0 0	,	
Signatu	1 / N	Date 5/25(12	

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53.50 3°.50 13.50

	Pumping	Water Level	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i series de la companya de la companya de la companya de la companya de la companya de la companya de la comp	The second of the second	Fig. 1. We assign as	terior de la companya del companya del companya de la companya de	E CONTROL OF THE	
	Rate (0.1-	(ft) (goal of	Volume	DO (mg/l)	ORP (mV)	Spc (μS/cm)	n⊔		
Time	0.5 L/min)	<0.33')	Pumped (L)	±10%	±10 mV	±3%	pH ±0.1 unit	Temp (C°)	Notes
0908	.36D	70.00 )	Tumped (E)	±1076	See 24 Oill V	[. 444.2 4 <b>TO</b> 70 11 1814	±0.15 urnit		
	1300		. •7	./0		/ 4 / 5	1 (1)	20	
29:15			~2 Gpc	. 49	-50,4	12170	6.61	22.25	Foggy, no ofor, no she
09:20			<i>a</i>	,31	-50.8	12155	6.83	22-19	
09:24 09:29			-25 Gal	, 26	-563	12252	6.85	22,22	
				. 21	-51,3	12404	6.67	22,32	
09:31		·	-3 GAL	,20	~51.6	12386	6.87	22,34	
09:34			2	.18	-569 -52,3	12400	6.88 6.89 6.90	22.34	
09:37	<u> </u>		23,5 GAI	.15	~52,3	12428	6.89	22,36	
09:40				.15	-52-2	12425	6,90	22,37	
09:43				.14	~5/.5	12422	6.90	22,39	
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Site Date	Energource 5/27/12	
du elle tawaran		Monitoring Well ID MW-17 Samplers CP, CD
		Monitorias Management
Diameter	2."	Monitoring Well Information
Total Depth	En 1	Denth to Dead.
Water Colum	n Height	
ype of P <u>ump</u>	C 0 - 1 - 1 A 1	Purging Information
epth of Pum	- Juan	Vater Quality A
alibration Pa	erformed 451 - Cond,	Water Quality Motor
	monned ys1 - Cond,	OUL 47 to Deput to water after nump in a si
	State of the Control	
imnle Dato		Sample Information
mplers_	Time 5/27/12 / 123	
alysis		Sample ID MW-12
	1	
mmen <u>ts:</u>		Pmp on: 1127
	<u> </u>	
	. W \( \( \( \) \)	
nature	ma a	

Time	Rate (0.1- 0.5 L/min)	<0.33')	Volume Pumped (L)	DO (mg/l) ±10%	ORP (mV ±10 mV			Temp (C°)	Notes
1149	0.190 Ø.2	39,01	1.0	3.30	-9.1	21012	±0.1 unit	20 A	
1152	Ø.2	39.62	1.6	\$.55	-8.2	21,092	7.02	24.55	Slight HC 00
1155	φ.2 φ.2	39.05	2.2	d.46	-9.7	21,152	6.97	24,66	£1
1158	<i>42</i>	39.44	2.8	Ø.32	-7.6	21,228	6.95	24.67	PA
1201	4.2	39.65	3.4	Ø.25	-5.8	21,325	692	24.81	Н
1206		38.97	4.0	Ø.23	-5.6	21,319	6.90	24.72	11
1214		39.00	5.0	Ø.21	-1.2	21, 405	6.88	24.95	4
1217	Ø.2	39.65 39.62	6.6	Ø.46	-2,B	21,777	6.87	25.72	น์
1220		39.65	7.2	Ø.17	-1.8	21,118	6.88	24,53	Porge stopped 1
1223	φ. Z	39.01	7.8	Ø.17	2.8	21,211	<del></del>	~/~~	adj. velvez o
1226		39.64	8.4 9.6	Ø.16	2.6	21,497		<del>- : · · ·  </del>	120x.
		- (	1.4	4.13	-2.5	21,602	1 / <del> </del>	24.28	slight Heador
							8.07	24.40	i c
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Note: Sample into from MW-13 + MW-14 is on the Levelopment sheets.

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# LNAPL Baildon Test MONITORING WELL CONTROLL

1 1	COMMENTS		Retore BD that	1											dearen Pake 39,22/29.76	_									- The state of the	
	GAUGER	NAME																								
	GPS COORD	EASTING																								
	GPS COORD	NORTHING																								
Project No.:_	DESCRIPTION	OF MEASURING POINT	39,35/39.49																							
probe	TOTAL	DEPTH (FT BMP)	71.55																							
jnkrku p	DEPTH TO	WATER (FT BMP)	†as ota	39 49	3.l .Hd	bh' bs	3g. 4g	39.49	39.50	25.68	39.55	7962	39.56	39. 98	92 BE	39.86	39.94	40.01	40:08	10,13	40.19	40,23	40.55	of of	58.04	
	DEPTH TO	PSH (FT BMP)	39.02	39.32	39.30	39 ,25	34.78	39.08	39.23	29.17	39.27	32.26	ı	39.25	39.22.39. 76		17	39, 15	39,14	_		39,19	39.10	51.03	39.03	
しいStrument:	TIME		68.73	वाध	धार	06118	511 <sub>5</sub> c	مرائ <sup>0</sup>	25,75	0860	c¶35	edho	2460	0480	ادوه	:) <del>S</del> c.	1250	1350	1450	0000	1650	1750	02:10	0800	SELD	
Project Name: বিসহ্য হন্ত্যুক্তি Water Level Instrument: पुरुक्त	DATE		当がに																				15/25/12/07:30	15/12/12	718215	
<b>,</b>	WELL		MW-03																							

BMP: Below Measuring Point PSH: Phase Separated Hydrocarbon

Project: Fractource



	Field Sample No.	Lab I.D.	Sampler Initials	Date Time Sample Collected Collected Media	Time Collected	Sample Media	Depth Interval	Sample Location/ Coordinates	Replicate/ Duplicate Sample? (Y/N)	Corresponding Field Sample No.	Composite? (Y/N)	Comments
7	10-MW		<b>ک</b>	ShS1 71/22/5	1545	د و						
<u>.                                    </u>	MW-06		8	1/22/5	1715	٥٩٥						
/	MW-OH		3	21/27/5	CHE	م و		•				
)	50-NW		3	5/23/12	[445]	e e						
	MW-14(19-23)		వ	5/25/12	1145	5						
7	80-MM.		26	21/52/5	81L1	<b>0</b>						
2	60-MW		•	डीय्ड्रीर	1331	و						
>	11-mm/		>	2/18/15	5462	د				:		
- 4	MW-12		3	2521 /11/1230	2821	٠ ٥						
	ma-07		N	Smir	Sinha	90						
<u> }</u>	01-WIL			डाग्रीट	1550	٥١ م						
	Egin Risat			6/27/11/130	1730	તું 0						
	Trip Black				ŀ	90						
	MW-14			5/28/1C	1540	٥٥						
لإ	MW-B			Spelr	12.10	٥٥						
	Sample Media											

01 - SURFACE WATER, 02 - POND BOTTOM WATER, 03 - POND BOTTOM SLUDGE 04 - SOIL, UNDERLYING SOIL, 05 - SURFACE WASTE, 06 - GROUND WATER, 07 - TANK WASTE, 08 - NAPL, 09 - TRIP BLANK, 10 - FIELD BLANK. (NNV - 13(24 - 24))1125 02 5/25/12

(152-61) HI - my

Trip Blond Meoth

# APPENDIX C Photographic Documentation



No. 1 – Stained soils from MW-07.



No. 2 – Wet, clayey soils from MW-07.



1



No. 3 – Commencing to drill at MW-11.



No. 4 – CME 85 setting up to drill MW-08.





No. 5 – Sand/Caliche contact in MW-08 in core collected from 19 to 23.5 feet bgs.

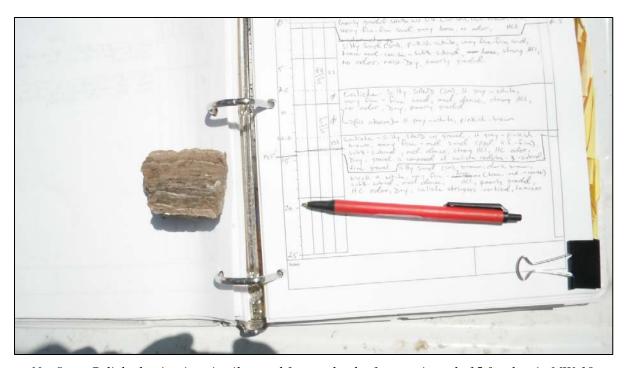


No. 6 – Gray, hydrocarbon staining in MW-08 beginning at approximately 28 feet bgs.





No. 7 – Laminations of caliche in clay underlain by caliche in MW-09.



No. 8 – Caliche laminations in silty sand from a depth of approximately 15 feet bgs in MW-10.





No. 9 – Gray stained sandy soil above red-brown clay in MW-10. Lithologic contact is at about 43 feet bgs.



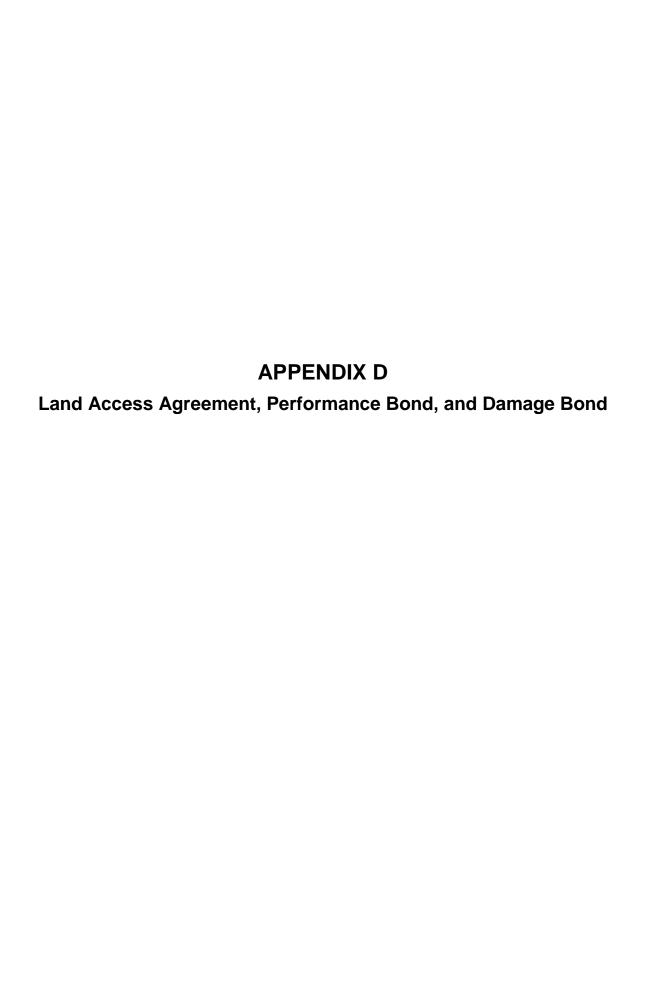
No. 10 – Preparing to over-ream MW-10 from a diameter of approximately 8-inches to a diameter of approximately 10 inches.





No. 11- Sand with clay in MW-13 from 29 to 34 feet bgs.





## **Monitoring Well Easement Procedures**

Submit application with \$100.00 application fee and \$75.00 appraisement fee. Please include a plat with legal description, quarter/quarter breakdown, coordinates and exact location of each monitoring well.

We will need a cover letter with a contact person and phone number.

We require that a damage bond be on file with The State Land Office.

Monitoring well fees are \$500.00 per well, and per year.

Monitoring well easements are issued up to five years and then will be up for renewal.

Monitoring wells are strictly for testing conditions in the ground water table and are not for producing water.

No water rights are required for monitoring wells.

Once we receive application with applications fees, cover letter and plat. It will be sent out for a site inspection. Please allow the process of a site inspection and issuing an approved easement to take about 4-6 weeks.



# State of New Mexico COMMISSIONER OF PUBLIC LANDS 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504-1148

## APPLICATION FOR WATER EASEMENT

	_	April 19	, 20_12
	w Mexico Energy, Minerals, and Natural Resources Departm	ent Oil Conservation Division	,
a resident of	Santa Fe State of New	Mexico	,
	it an application for Water Easement(s)		, under the
	tate of New Mexico rules and regulations of the State		
	e of expiration of the aforementioned water easem		
	fee and \$145.00 appraisal fee, together with an est		
	e property in conjunction with the water easement(s		
	less then \$500.00 minimum for (monitoring w		
•	wells) for each well authorized by the easement(s	), or for each water easer	nent being
renewed, which	ichever sum is greater.		
described as for		or renewal is contiguous  Expected Volume of Use	
В.	Attached is a plat showing the location of existing	wells, facilities and equipm	ient.
C.1. water rights u file number(s)	upon which the listed appropriations are based, pleas	e list the State Engineers v	
	If the New Mexico State Engineer has not designates, please indicate the first date of appropriation for ell-site locations, volumes of water produced, or in the	each diversion listed abov	e, and any
D. Install maximum	Please explain the purpose of Water Easement.  m of 8 wells to monitor groundwater quality downgradient fron	n former Enersource facility.	

E. List all equipment and facilities which are anticipated to be located within the
boundaries of the above designated lands in association with the continued operation of this water
easement during the term of renewal applied for herein:  Maximum of 8 monitoring wells with above-grade completions consisting of metal, protective shroud, and 2'x2'
F. List any additional information relative to the land applied for, or use of same, not
covered by the above statements:
Well locations illustrated on plat and supplement are estimates. Locations may change depending on utility locations
and investigation findings.
G. If the water easement is granted, I agree to provide adequate bond to reclaim all surface damages, which could result from activities undertaken under this easement.
H. If the water easement is granted, I agree to furnish grantor copies of records and such
reports and plats of your operations including, but not limited to well logs, drill cores, and other data
relating to geological formations as the grantor may reasonably deem necessary for his administration of the trust lands.
I. If the water easement is granted, I agree to execute a standard Water Rights Agreement.
I,, do solemnly swear (or affirm) that
I,, do solemnly swear (or affirm) that the statements and answers to questions in this application are true and correct to the best of my knowledge and belief.
Signed:
Address:
Phone: (
STATE OF
COUNTY OF)ss.
SUBSCRIBED AND SWORN to before me this day of, 20 .
20
S
E
A My commission expires
L Notary



Ray Powell, M.S., D.V.M. COMMISSIONER

### State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148 **COMMISSIONER'S OFFICE** 

Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

May 3, 2012

NM Energy, Minerals and Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

Attn: Jim Griswold

Re: Confirmation of Verbal Approval – WM-244

Dear Mr. Griswold,

This letter is to document in our files, that you have requested expedited and/or emergency approval to begin construction of the project applied for under Application for Water Easement, WM-244. Verbal request has been granted and approved effective today, May 3, 2012.

We wish to inform you, for next time that verbal approval is not normally granted. Verbal approvals are granted <u>only</u> if the applicant can demonstrate an emergency situation. It is the responsibility of the applicant to submit the Application for Water Easement with sufficient time to allow for delays in the processing cycle.

If we can be of further assistance to you, please do not hesitate to contact me at (505) 827-5899 or at pgarcia@slo.state.nm.us.

Sincerely,

Philip Garcia, Management Analyst Surface Resource Division

Right-of-Way Section



# The Bond Exchange

A Division of SUR Insurance Agency, Inc.

8601 McAlpine Park Drive, Suite 100-C ◆ Charlotte, North Carolina 28211 ◆ 704-366-6847 ◆ 1-800-438-1162 ◆ FAX 704-364-3214

April 12, 2012

The Bond Exchange 8601 McAlpine Park Drive, Suite 100-C Charlotte, NC 28211

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IJ.	_	
$\mathbf{r}$	Г.	

Name of Principal:

INTERA INCORPORATED

(Contractor)

Bond Number:

2157461

Obligee:

STATE OF NEW MEXICO

#### Gentlemen:

This letter is to advise you that I understand that the bond premium on the above referenced performance/payment bond is based on the final contract price. The premium I have paid is on the original contract amount, and that any change orders and/or addendums become part of this contract. I recognize the fact that a status inquiry will be sent to close out the bond. I agree that based on the amount reported to the bond company as the final contract amount, I will be billed for any overrun at the completion of the job.

Sincerely,

Signature of Principal (Contractor)

Cynthia Ardito Vice President, 4-13-12 Print Name, Title and Date



KNOW ALL MEN BY THESE PRESENTS, that

INTERA INCORPORATED
1812 CENTRE CREEK DR., SUITE 300, AUSTIN, TX 78754

as Principal, hereinafter called Contractor, and

## NORTH AMERICAN SPECIALTY INSURANCE COMPANY 650 ELM STREET MANCHESTER, NH 03101

as Surety, hereinafter called Surety, are held and firmly bound unto

STATE OF NEW MEXICO 1220 S. ST. FRANCIS DR SANTA FE, NM 87505

as Obligee, hereinafter called Owner, in the amount of

ONE HUNDRED TWELVE THOUSAND SEVEN HUNDRED SIXTY & 95/100 DOLLARS (\$112,760.95)

for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Contractor has by written agreement dated MARCH 9, 2012, entered into a contract with Owner for

GLORIA HERNANDEZ Notary Public State of New Mexico

SUPPLY STAFF

in accordance with Drawings and Specifications prepared by

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

### **PERFORMANCEBOND**

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

- 1) Complete the Contract in accordance with its terms and conditions, or
- 2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as Work progresses (even though there should be a default or a succession of defaults under the contract or

contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

# BOND PREMIUM BASED ON FINAL CONTRACT PRICE

Signed and sealed this 12 DAY OF APRIL 2012	OFFICIAL SEAL GLORIA HERNANDEZ Notary Public State of New Mexico INTERA IN ORDER AMF Comm. Expires
Man Hyandey (Witness)	(Principal) (Seal)  (Uli) Vi ce Presiden  (Title)
Olssiau Mitness)	NORTH AMERICAN SPECIALTY INSURANCE COMPANY  (Surety) (Seal)
	(Title)  Dale E. Clark ATTORNEY IN FACT



### Labor and Material Payment Bond

THIS BOND IS ISSUED SIMULTANEOUSLY WITH PERFORMANCEBOND IN FAVOR OF THE OWNER CONDITIONED ON THE FULL AND FAITHFUL PERFORMANCE OF THE CONTRACT

KNOW ALL MEN BY THESE PRESENTS, that

INTERA INCORPORATED
1812 CENTRE CREEK DR., SUITE 300, AUSTIN, TX 78754

as Principal, hereinafter called Principal, and

NORTH AMERICAN SPECIALTY INSURANCE COMPANY 650 ELM STREET MANCHESTER, NH 03101

as Surety, hereinafter called Surety, are held and firmly bound unto

STATE OF NEW MEXICO 1220 S. ST. FRANCIS DR SANTA FE, NM 87505

as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of

ONE HUNDRED TWELVE THOUSAND SEVEN HUNDRED SIXTY & 95/100 DOLLARS (\$112,760.95)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated MARCH 9, 2012, entered into a contract with Owner for SUPPLY STAFF

in accordance with Drawings and Specifications prepared by

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

### LABOR AND MATERIAL PAYMENT BOND

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

- A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the principal for labor, material, or both used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract.
- 2. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimants work or labor was done or performed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The owner shall no be liable for the payment of any costs or expenses of any such suit.
- 3. No suit or action shall be commenced hereunder by any claimant:
- a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: the Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the

- party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the state in which the aforesaid project is located, save that such service need not be made by a public officer..
- b) After the expiration of one (1) year following the date on which principal ceased Work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
- c) Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, or in the United States District Court for the district in which the Project, or any part thereof, is situated, and not elsewhere.
- 4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 12 DAY OF APRIL 2012	OFFICIAL GLORIA HE Notary State of Ne INTERA_INCORPORMY_E8mm. Expire	RNANDEZ Public
Maria termanles	(Principal)	(Seal)
(Witness)	(lul. fo, Vice Preside	uL
	NORTH AMERICAN SPECIALTY INSURANCE COMPA	ANY
Witness) What was a second of the second of	Allet (Surety)	(Seal)
	(Title)  Dale E. Clark ATTORNEY IN FACT	

#### NAS SURETY GROUP

### NORTH AMERICAN SPECIALTY INSURANCE COMPANY WASHINGTON INTERNATIONAL INSURANCE COMPANY

#### GENERAL POWER OF ATTORNEY

laws of the State of New Hampsl	PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under nire, and having its principal office in the City of Manchester, New Hampshire, and Washington International on organized and existing under the laws of the State of New Hampshire and having its principal office in the City of
	hereby make, constitute and appoint:
	DALE E. CLARK, DIANE GIBSON,
	and ROBERT JACOBSON
	JOINTLY OR SEVERALLY
obligatory in the nature of a bond	-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by wise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the TEN MILLION (\$10,000,000.00) DOLLARS
This Power of Attorney is g Directors of both North America on the 24 <sup>th</sup> of March, 2000:	ranted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of a Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held
the Secretary or any Assistant Sein the given Power of Attorney to	of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, cretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them he execution of any such Power of Attorney and to attach therein the seal of the Company; and it is
certificate relating thereto by facsin	the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any nile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."
GALTY ASCIPLING TO A STATE OF THE STATE OF T	Steven P. Anderson, President & Chief Executive Officer of Washington International Insurance Company & Senior Vice President of North American Specialty Insurance Company  By  David M. Layman, Senior Vice President of Washington International Insurance Company
IN WITNESS WHEREOF, official seals to be hereunto affixed	& Vice President of North American Specialty Insurance Company  North American Specialty Insurance Company and Washington International Insurance Company have caused their ed, and these presents to be signed by their authorized officers this 24th day of February , 2011.
	North American Specialty Insurance Company
	Washington International Insurance Company
State of Illinois County of Cook ss:	
Senior Vice President of Washing personally known to me, who be	
I, <u>James A. Carpenter</u> , the dul International Insurance Company American Specialty Insurance Co	Notary Public, State of Illinois My Commission Expires 10/06/2011  Donna D. Sklens, Notary Public
IN WITNESS WHEREOF, I have	set my hand and affixed the seals of the Companies this 12th day of April, 20_12

James A. Carpenter, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company

James A. Eugentes



# NEW MEXICO STATE LAND OFFICE OIL CONSERVATION DIVISION

Principal Bond # 2157469

031

or Blanket Bond

#### <u>DAMAGE BOND</u> RIGHT-OF-WAY OR WATER LEASE

KNOW ALL MEN BY THESE PRESENTS:  That Intera Incorporated	, as Principal,
and <u>North American Specialty Insurance Company</u>	, of 650 Elm Street, Manchester, NH , a corporation organized, existing
and doing business under and by virtue of laws of the State and firmly bound unto the State of New Mexico, for the use prior surface leases, licenses, rights-of-way and easements, i One Thousand and 00/100 (\$1,000,00 well and truly to be made, we bind ourselves, our heirs, so every one of them and us jointly and severally, firmly by the	e and benefits of interested holder of n the total sum of
Signed with our hands and sealed with our seals this 20_12	
The conditions of the foregoing obligation are such the	hati

The conditions of the foregoing obligation are such that:

Single Lease (Lease #

WHEREAS, the said principal has heretofore or may hereafter enter into water leases or right-of-way agreements with the State of New Mexico of various dates and periods of duration, covering the land described in such leases or rights-of-way; and

WHEREAS, all or part of said lands is embraced in grazing lease, business lease, or other surface lease, or is embraced in a right-of-way, easement or license granting the holder thereof the right to go upon or cross over the surface of said land, or to construct improvements thereon, as shown by the official records of the State Land Office of the State of New Mexico.

NOW, THEREFORE, if said principal in all respects shall make good and sufficient recompense, satisfaction and/or payment unto the holder or his successors in interest of any said prior surface lease, license, or other holder of prior surface rights, for all damages to the livestock, water, crops, buildings, fences, pipelines, powerlines, or other tangible improvements on such lands as may be suffered by such prior holder or his successors in interest by reason of operations under said lease or right-of-way or for such damages as a court of competent jurisdiction may determine and fix in any action brought on this bond, then this obligation shall be null and void; otherwise to remain in full force and effect.

	Principal		Diane Silvane Surety Attorney-in-Fact
	OF NEW MEXICO	) ss.	Note her mires
COUNT	Y OF		
(	On this	_day of	, 20 , before me personally appeared , to me known to be the person
	d in and who execut his free act and deed	ted the foregoing	g instrument and acknowledged that he executed the
I this certi	N WITNESS WHE	EREOF, I have h	nereunto set my hand and seal on the day and year in
) / O	malasian Dunings		
My Con	mission Expires:		
		·····	Notary Public
STATE	OF North Carolina Y OF Mecklenburg		Notary Public
STATE COUNT C	OF North Carolina Y OF Mecklenburg On this 18th	) ss. ) day of April	, 20_12_, before me appeared to me personally known, who,
STATE COUNT COUNT being by	OF North Carolina Y OF Mecklenburg On this 18th and Gibsonds me duly sworn, did	) ss. day of April say that he/she i	, 20_12_, before me appeared to me personally known, who, sAttorney-in-Fact
STATE  COUNT  Count  being by of North  y seal of:	OF North Carolina Y OF Mecklenburg On this 18th One Gibson  me duly sworn, did American Specialty said corporation an on by authority of it	) ss. day of April say that he/she i Insuranced that d that said inst	, 2012, before me appeared to me personally known, who, sAttorney-in-Fact at the seal affixed to said instrument is the corporate trument was signed and sealed on behalf of said
STATE  COUNT  Dia  being by  of North  y seal of a  corporati  Company	OF North Carolina Y OF Mecklenburg On this 18th One Gibsonds me duly sworn, did American Specialty said corporation and on by authority of it acknowledge	) ss.  day of April say that he/she i / Insuranced that d that said inst s Board of Direct d said instrumen  REOF, I have h	
STATE  COUNT  Count  being by  of North  y seal of a  corporati  Company  this certi	OF North Carolina Y OF Mecklenburg On this 18th One Gibsonic me duly sworn, did American Specialty said corporation and son by authority of it acknowledge.	) ss.  day of April say that he/she i / Insuranced that d that said inst s Board of Direct d said instrumen  REOF, I have h	

S-42 (Revised 01/2007)

#### NAS SURETY GROUP

### NORTH AMERICAN SPECIALTY INSURANCE COMPANY WASHINGTON INTERNATIONAL INSURANCE COMPANY

#### GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:
DALE E. CLARK, DIANE GIBSON,
and ROBERT JACOBSON
JOINTLY OR SEVERALLY
Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:  TEN MILLION (\$10,000,000.00) DOLLARS
TEN MILLION (\$10,000,000.00) DOLLARS
This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 24 <sup>th</sup> of March, 2000:
"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is
FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."
By  David M. Layman, Senior Vice President of Washington International Insurance Company  David M. Layman, Senior Vice President of Washington International Insurance Company
Wice President of North American Specialty Insurance Company  IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 24th day of February, 2011.
North American Specialty Insurance Company Washington International Insurance Company
State of Illinois County of Cook ss:
On this 24th day of February, 20 11, before me, a Notary Public personally appeared Steven P. Anderson, President and CEO of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and David M. Layman, Senior Vice President of Washington International Insurance Company and Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.
POFFICIAL SEALE DONNA D. SKLENS Notary Public, State of Illinois My Commission Expires 10/06/2011  Donna D. Sklens, Notary Public
I, <u>James A. Carpenter</u> , the duly elected <u>Assistant Secretary</u> of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.
IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 18T day of April 2012.
June N. Vufente

James A. Carpenter, Vice President & Assistant Secretary of Washington International Insurance Company & North American Specialty Insurance Company

### **APPENDIX E**

Log of Borings, Monitoring Well Construction Diagrams, and OSE Well Permits



(Page 1 of 2)

Project Name: OCD – Enersource Monument, NM Date Started : 3
Date Completed : 3
Drilling Method : 1

: 5/8/2012 : 5/11/2012 : HSA 10" OD : Continuous 5' Core Driller
Depth to Water
Logged By

: J. Barraza : 37.7' bgs : L. Dalton

					Sampling Method	: Continuous 5' Core	Logged By			L. Daiton
	Proje	ct #: NM	GSD.MC	002.ENER	Drilling Company	: Precision Sampling				
Depth in Feet	Sample Interval	Recovery (%)	PID Reading (ppm)	DESCRIPTION			nscs	GRAPHIC	Well: MW-07 TOC = 3582.14	
0-		NA NA	NA 246		orly graded, light broel, soft, moderate HC	wn, very fine-grained sand CL, moist	l, trace	SM		Canarata
5-		NA	246	SAND w/ Clay, po subangular to sub	oorly graded, brown, rounded, firm, mode	very fine- to medium-grain erate HCL, no plasticity, mo	ned sand, bist	SP/ SC		Concrete
		50	33.9	(predominately ve hard, strong HCL,	ery fine- to medium-g dry, caliche build up		orounded,			
10-		40	203	Reddish-brown, le caliche nodule (cc	ess caliche, trace fin obble size) (one in sh	e-grained gravel, subround noe), hydrocarbon odor	ded, trace			— Grout
15-		36	1,266	Pinkish-brown, fevodor	w caliche cobbles (o	ne in shoe), strong hydroc	arbon	SW		4" SCH 40 PVC Casing
20-	-	24	1,242							
25 -		30	945	Gray-white  Light reddish-brov	vn, few fine-grained	gravel, subrounded, moist				Bentonite Seal
30-	<u> </u>			L						10/20 Silica Sand

#### Notes

06-27-2012 S:\Projects\BoreLogs\OCD\Enersource\MW-07.bor

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4' bgs
- 3. Depth of water noted during drilliing.



(Page 2 of 2)

Project Name: OCD – Enersource Monument, NM

**Date Started** Date Completed Drilling Method

: 5/8/2012 : 5/11/2012 : HSA 10" OD : Continuous 5' Core Driller Depth to Water Logged By

: J. Barraza : 37.7' bgs : L. Dalton

Sampling Method

Depth in Feet	Sample Interval	Recovery (%)	PID Reading (ppm)	DESCRIPTION	SOSI	GRAPHIC	Well: N	/W-07 3582.14
30— 35— 40—		24 48	312 590	SAND, well graded, light- to moderate-gray, very fine- to medium-grained sand (predominately very fine- to fine-grained sand), trace coarse-grained sand, subangular to subrounded, minor clay, non plastic to low-plasticity, firm, strong HCL, strong hydrocarbon odor, moist to wet (wet beginning at 37.7' bgs)  Reddish-brown, wet [39'-41.5' PID = 17.6]	SV			—4" SCH 40 PVC Casing
45— 		100	17.6 10.9	SAND, poorly graded, reddish-brown, very fine- to fine-grained sand, trace medium- to coarse-grained sand, subrounded, little clay, non plastic to low-plasticity, trace fine-grained gravel, subrounded to rounded, weak HCL, wet	SI	2		
ର୍ 2. Postl	hole = (	interval s 0'-4' bgs iter noted		Bottom of boring at 50' bgs				

# 60

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4' bgs
- 3. Depth of water noted during drilliing.



(Page 1 of 2)

10/20

Silica Sand

Project Name: OCD – Enersource Monument, NM Date Started : 5/12/2012
Date Completed : 5/13/2012
Drilling Method : HSA 10" OD
Sampling Method : Continuous 5' Core

: Precision Sampling

**Drilling Company** 

Driller : J. Barraza
Depth to Water : 38.5' bgs
Logged By : L. Dalton

Project #: NMGSD.M002.ENER

PID Reading (ppm) Sample Interval Recovery (%) Well: MW-08 GRAPHIC Depth TOC = 3584.11**DESCRIPTION USCS** in Feet 0 SAND, poorly graded, reddish-brown, fine- to medium-grained sand (predominately fine-grained sand), subangular to subrounded, loose, SP Concrete moderate HCL, little silt, trace clay, no plasticity, moist NA NA SILTY SAND, pinkish light brown, very fine- to fine-grained sand, trace SM medium-grained sand, subangular to subrounded, very loose, moderate 5 SAND, poorly graded, reddish-brown, fine- to medium-grained sand (predominately fine-grained sand), subangular to subrounded, medium 24 0.8 dense, few silt and clay, no plasticity, moderate HCL, moist SP 10 70 0.1 SILTY SAND, poorly graded, reddish-brown, very fine- to fine-grained sand, medium dense, trace clay, no plasticity, strong HCL, dry to moist, Grout little caliche [dense, trace medium- to coarse-grained sand, subangular to 15 subrounded, no clay, hydrocarbon odor, laminar caliche layers (13'-14' 4" SCH 40 bgs)] PVC 1,667 60 Casing Very dense, trace medium- to coarse-grained sand, subangular to subrounded, no clay, strong hydrocarbon odor (caliche 22.7'-23.5' bgs) 20 73 1,666 SM Not sampled SILTY SAND w/ Caliche, light gray to light brown, very dense, very fine- to fine-grained sand, strong HCL, dry, strong hydrocarbon odor from 24'-38' 25 bgs 80 1,629 Bentonite Gray stained (28.2'-29' bgs) Seal

Trace medium-grained sand, subangular to subrounded, moist

## 30 -

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs; Refusal with core barrel 23.5'-24', not sampled

[29'-33' PID = 1,601]

3. Depth to water noted during drilling



(Page 2 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/12/2012 **Date Completed** : 5/13/2012 **Drilling Method** : HSA 10" OD Sampling Method : Continuous 5' Core

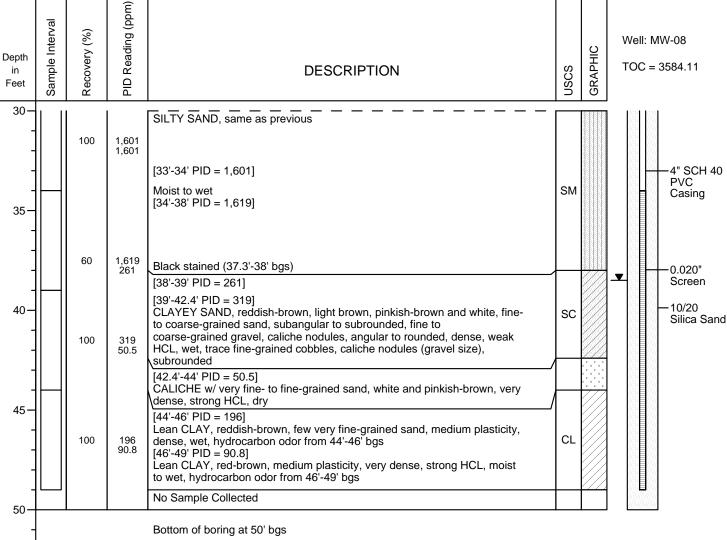
: Precision Sampling

**Drilling Company** 

Driller : J. Barraza Depth to Water : 38.5' bgs Logged By : L. Dalton

Project #: NMGSD.M002.ENER

Well: MW-08



60

55

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs; Refusal with core barrel 23.5'-24', not sampled
- 3. Depth to water noted during drilling



(Page 1 of 2)

Project Name: OCD – Enersource Monument, NM

**Date Started** : 5/13/2012 Date Completed : 5/14/2012 Drilling Method : HSA 10" OD Sampling Method : Continuous 5' Core Driller : J. Barraza : 39' bgs Depth to Water Logged By : L. Dalton

F	Projec	t #: NM	IGSD.M	O02.ENER Drilling Company : Precision Sampling			
Depth in Feet	Sample Interval	Recovery (%)	PID Reading (ppm)	DESCRIPTION	nscs	GRAPHIC	Well: MW-09  TOC = 3582.21
0		NA	NA	SAND w/ Silt, poorly graded, reddish-brown, very fine- to fine-grained sand, very loose, moderate HCL, moist to wet, no odor  [4'-7.6' PID = 0]	SP/ SM		— Concrete
5-		48	0.0 0.4	SILTY SAND, pinkish-white, very fine- to fine-grained sand, trace medium- to coarse-grained sand, subangular to subrounded, very loose, strong HCL, moist to dry	SM		
- 10-		100	0.0	[7.6'-9' PID = 0.4] SAND w/ Clay, poorly graded, reddish-brown, very fine- to fine-grained sand, medium dense, no plasticity, moderate HCL, moist Strong cementation, very dense, slow drilling at 19' bgs [9'-11' PID = 0] [11'-14' PID = 0]	SP/ SC		
15—			0.0	Fat CLAY, reddish-brown, high plasticity, very hard, strong HCL, dry, vertical carbonate stringers (above), laminar to massive carbonate horizon, trace fine-grained gravel, rounded, strong cementation (bottom 6")  CALICHE, pinkish-white, very hard, strong HCL, hydrocarbon odor, dry,	CH		4" SCH 40 PVC Casing
-		74	987	blocky, strong cementation  Strong hydrocarbon odor			— Grout
20-		80	1,774 1,638	[19'-23' PID = 1,774]  [23'-24' PID = 1,638] Light gray, moist at 23' bgs			
25—		100	1,365	No sample Light to dark gray and pinkish-white			
30 1 1 1 1 35		80	1,207	CALICHE w/ Silty Sand, light- to moderate-gray, poorly graded, fine- to coarse-grained sand (predominately fine- to medium-grained sand), angular to subrounded, little fine-grained gravel, subangular to subrounded (32.8'-33.5'), medium dense, strong HCL, moist, strong hydrocarbon odor			Bentonite Seal  -10/20 Silica Sand
35	H			Minor clay, no plasticity, moist [34'-38.5' PID=464]			0.020" Screen

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-6' bgs
- 3. Depth to water noted during drilling

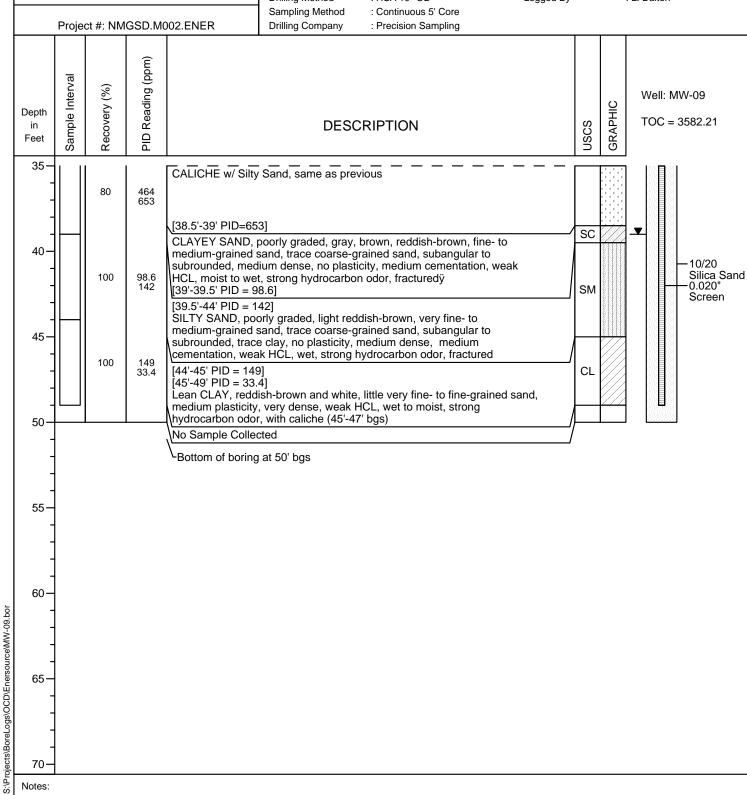
06-27-2012 S:\Projects\BoreLogs\OCD\Enersource\MW-09.bor



(Page 2 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/13/2012 **Date Completed** : 5/14/2012 **Drilling Method** : HSA 10" OD Driller : J. Barraza Depth to Water : 39' bgs Logged By : L. Dalton



- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-6' bgs
- 3. Depth to water noted during drilling



(Page 1 of 2)

Project Name: OCD - Enersource Monument, NM

Project #: NMGSD.M002.ENER

**Date Started** : 5/15/2012 **Date Completed** : 5/16/2012 **Drilling Method** : HSA 10" OD Sampling Method : Continuous 5' Core **Drilling Company** : Precision Sampling Driller : J. Barraza Depth to Water : 38.5' bgs Logged By : L. Dalton

Depth in Feet	Sample Interval	Recovery (%)	PID Reading (ppm)
---------------------	-----------------	--------------	-------------------

#### **DESCRIPTION**

Well: MW-10 TOC = 3580.23

Concrete

-Grout

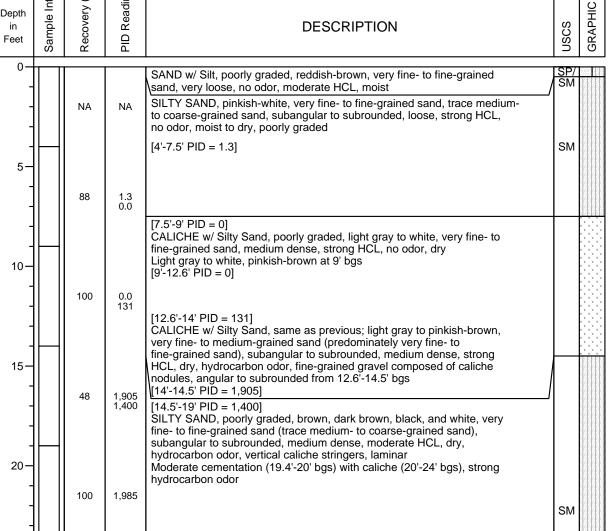
4" SCH 40 PVC

Bentonite Seal

Silica Sand

10/20

Casing



Strong hydrocarbon odor, minor clay, no plasticity (caliche cobble in

With caliche, strong HCL, (33'-33.4') caliche cobble reddish-brown,

## 30

25

1. X = Sample interval sent for laboratory analysis

shoe)/little caliche

(33.4'-34') moist

- 2. Posthole = 0'-5' bgs
- 3. Depth to water noted during drilling

56

2,117



(Page 2 of 2)

Project Name: OCD – Enersource Monument, NM Date Started : 5/15/2012
Date Completed : 5/16/2012
Drilling Method : HSA 10" OD
Sampling Method : Continuous 5' Core

Driller : J. Barraza
Depth to Water : 38.5' bgs
Logged By : L. Dalton

Project #: NMGSD.M002.ENER

Drilling Company : Precision Sampling

	Proje	Ct #. INIV	IGSD.IVIC	JUZ.ENER Drilling Company : Precision Sampling						
Depth in Feet	Sample Interval	Recovery (%)	PID Reading (ppm)	DESCRIPTION		nscs	GRAPHIC	Well: MW-10 TOC = 3580.23		
30-		74	1,889	SILTY SAND, same as previous	-	SM				-4" SCH 40 PVC Casing
35-	-	NM	1,318 93.6	[34'-38.5' PID = 1,318] SAND w/ Clay, poorly graded, moderate gray, very fine- to fine-grained sand, trace medium- to coarse-grained sand, subangular to subrounded no plasticity, strong HCL, moist to wet, strong hydrocarbon odor, few caliche nodules and cobbles, medium dense, round to subrounded	d,	SP/ SC				
40-	-	NM	79.5 3.5	[38.5'-39' PID = 93.6] SAND, well graded, moderate- to dark-gray, fine- to coarse-grained sar subangular to subrounded, few clay, loose, no plasticity, weak HCL, we strong hydrocarbon odor, trace caliche nodules/caliche Fine- to coarse-grained gravel (39'-41.2' bgs), round to subrounded [39'-42.5' PID = 79.5]	nt l	sw	///			-10/20 Silica Sand -0.020" Screen
45 – - - -		100	NM	[42.5'-44' PID = 3.5] Lean CLAY, reddish-brown, little very fine- to fine-grained sand, trace fine- to coarse-grained caliche cobbles, round to subrounded, very dense, medium plasticity, weak HCL, moist, weak hydrocarbon odor SAND w/ Silt, poorly graded, reddish-brown, very fine- to fine-grained sand, trace medium- to coarse-grained sand, round to subrounded, little clay, trace fine-grained gravel, round, no plasticity, weak HCL, wet, no hydrocarbon odor	<i></i>	SP/ SM				
50		100	NM	No Sample Collected					3	
50 –			•	Bottom of boring at 50' bgs				Variation		
ē	J									

# 60 ·

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-5' bgs
- 3. Depth to water noted during drilling



(Page 1 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/9/2012 **Date Completed** : 5/11/2012 **Drilling Method** : HSA 10" OD Sampling Method : Continuous 5' Core

: Precision Sampling

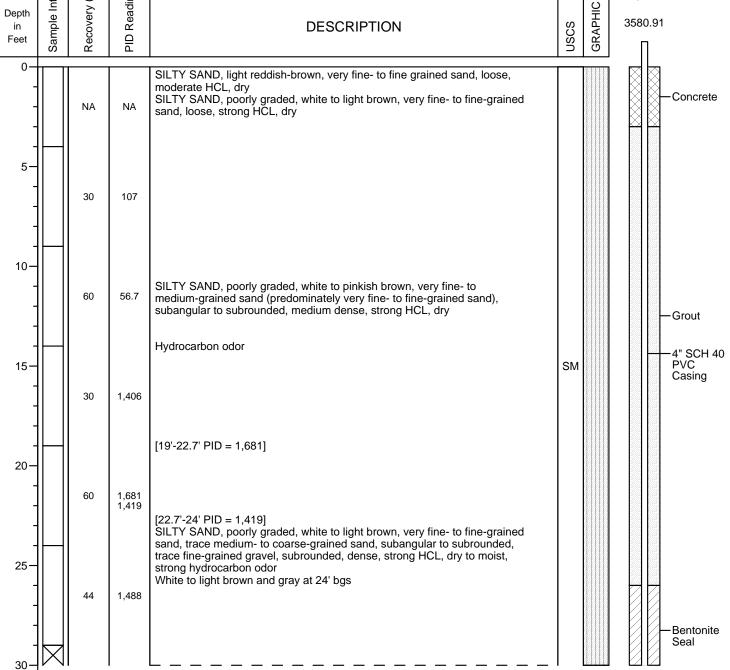
**Drilling Company** 

Driller : J. Barraza Depth to Water : 39' bgs Logged By : L. Dalton

Project #: NMGSD.M002.ENER

PID Reading (ppm) Sample Interval Recovery (%)

Well: MW-11



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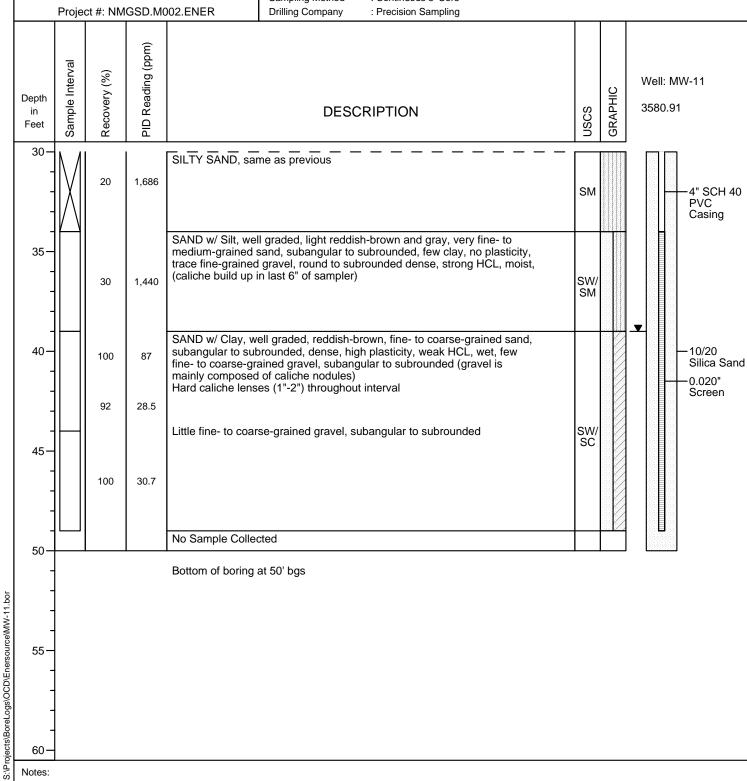
- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.8' bgs
- 3. Depth to water noted during drilling



(Page 2 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/9/2012 **Date Completed** : 5/11/2012 **Drilling Method** : HSA 10" OD Sampling Method : Continuous 5' Core Driller : J. Barraza Depth to Water : 39' bgs Logged By : L. Dalton



## 60

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.8' bgs
- 3. Depth to water noted during drilling



(Page 1 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started Date Completed Drilling Method** 

: 5/16/2012 : 5/16/2012 : HSA 7 5/8" OD Driller Depth to Water Logged By

: J. Barraza : 37' bgs : L. Dalton

Project #: NMGSD.M002.ENER

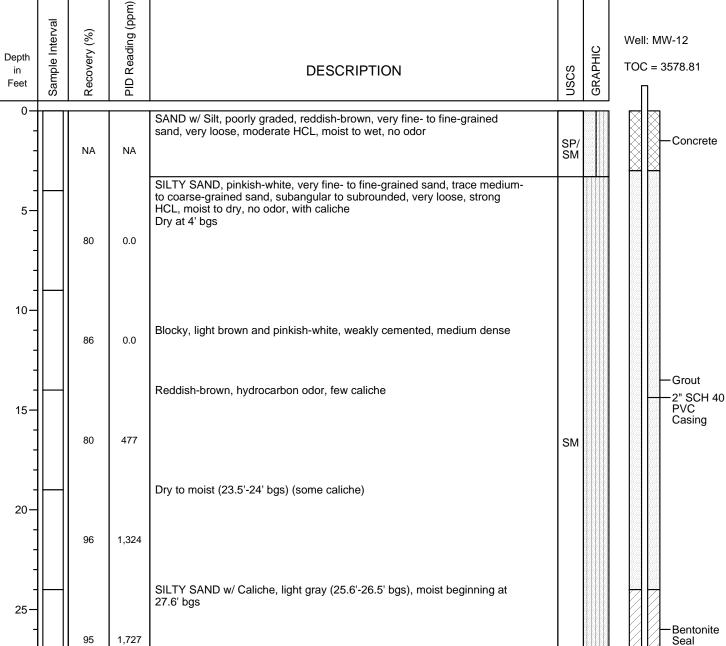
Depth

Sampling Method : Continuous 5' Core **Drilling Company** : Precision Sampling

	VVCII. IVIVV-12
1 ()	
10	

TOC = 3578.81

10/20 Silica Sand



SILTY SAND w/ Caliche, fine- to coarse- grained gravel, fine-grained

cobbles, subround to rounded (29'-33' bgs)

29'-33' PID = 1,789]

# 30

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs
- 3. Depth to water noted during drilling

S:\Projects\BoreLogs\OCD\Enersource\MW-12.bor



(Page 2 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/16/2012 **Date Completed** : 5/16/2012 **Drilling Method** 

Driller Depth to Water Logged By

: J. Barraza : 37' bgs : L. Dalton

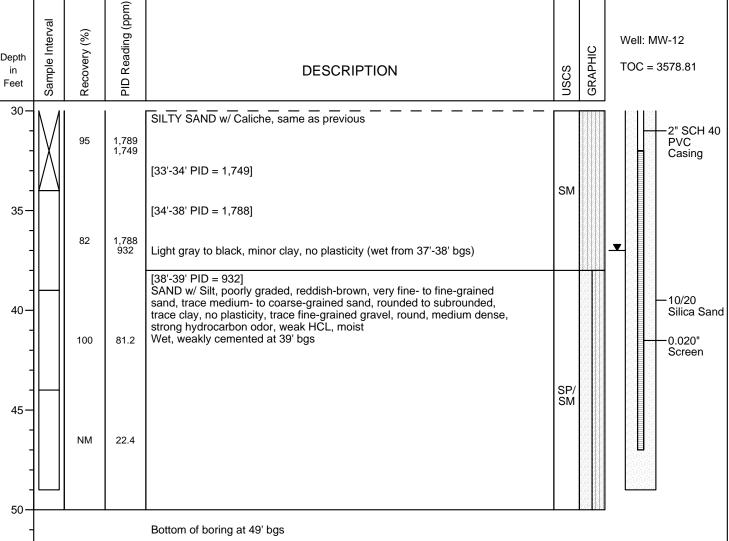
Project #: NMGSD.M002.ENER

Depth

: HSA 7 5/8" OD Sampling Method : Continuous 5' Core **Drilling Company** : Precision Sampling

Well: MW-12

TOC = 3578.81



60

55

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs
- 3. Depth to water noted during drilling

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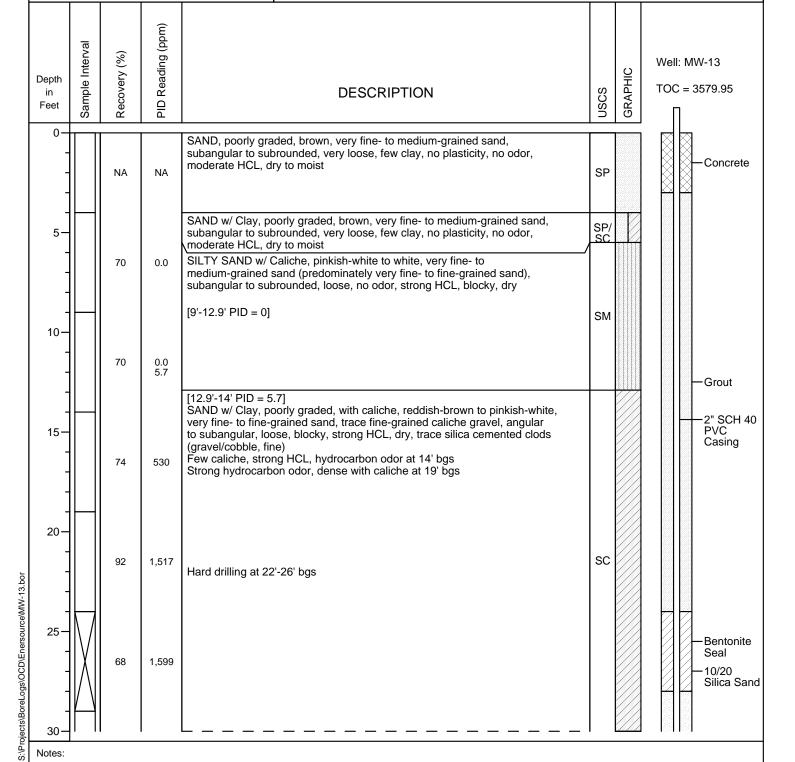


(Page 1 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/26/2012 **Date Completed** : 5/26/2012 **Drilling Method** : HSA 7 5/8" OD Sampling Method : Continuous 5' Core **Drilling Company** : Precision Sampling Driller : J. Barraza Depth to Water : 37' bgs Logged By : L. Dalton

Project #: NMGSD.M002.ENER



- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs
- 3. Depth to water noted during drilling



(Page 2 of 2)

Project Name: OCD - Enersource Monument, NM

**Date Started** : 5/26/2012 **Date Completed** : 5/26/2012 **Drilling Method** : HSA 7 5/8" OD Sampling Method : Continuous 5' Core

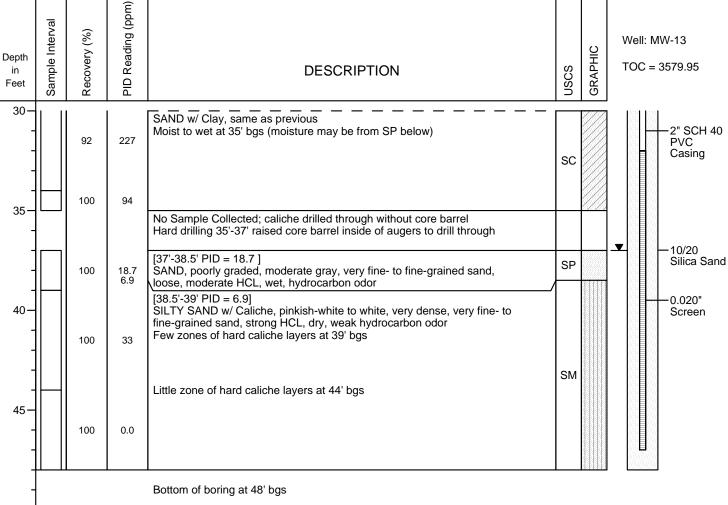
: Precision Sampling

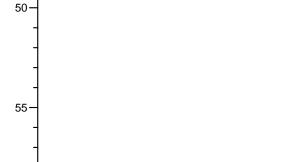
**Drilling Company** 

Driller : J. Barraza Depth to Water : 37' bgs Logged By : L. Dalton

Project #: NMGSD.M002.ENER

Well: MW-13





## 60

- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4.5' bgs
- 3. Depth to water noted during drilling



(Page 1 of 2)

Bentonite

Seal

Project Name: OCD – Enersource Monument, NM Date Started : 5/25/2012
Date Completed : 5/25/2012
Drilling Method : HSA 7 5/8" OD
Sampling Method : Continuous 5' Core

Driller : J. Barraza
Depth to Water : 37' bgs
Logged By : L. Price

Project #: NMGSD.M002.ENER **Drilling Company** : Precision Sampling PID Reading (ppm) Sample Interval Recovery (%) Well: MW-14 GRAPHIC Depth TOC = 3578.82**DESCRIPTION USCS** in Feet 0 Posthole 0-4' bgs Concrete NA NA [4'-6' PID = 0]SAND w/ some Silt, poorly graded, pink, fine-grained sand with trace SP 5 medium-grained sand, subangular, loose, strong HCL, dry 80 0.0 SILTY SAND w/ some Caliche, poorly graded, pink and reddish-brown, fine-grained sand, very dense, strong HCL, dry 10 75 190 [14'-15' PID = 1,301] 2" SCH 40 PVC [15'-19' PID = 1,450] 15 Casing SILTY SAND, poorly graded, fine-grained sand, dark gray with some black, dense, moderately cemented from 19'-23' bgs, strong HCL, 75 1,301 1,450 hydrocarbon odor, dry -Grout SM [19'-23' PID = 1,801] 20 75 1,801 1.440 [23'-24' PID = 1,440]SILTY SAND w/ some Caliche, poorly graded, dark gray (gray from 24' to 29' bgs) fine-grained sand, very dense, highly cemented, strong HCL, hydrocarbon odor, dry 25 [24'-26' PID = 1,728][26'-29' PID = 1,614] 1,728 1,614 50

SILTY SAND w/ some Caliche, poorly graded, white (gray from 32'-34'

bgs), fine-grained sand, dense, strong HCL, hydrocarbon odor, dry

## 30 -

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- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4' bgs
- 3. Since getting low recovery in each 5' spoon, pushed an extra foot at the 44-50 interval
- 4. Depth to water noted during drilling



Driller

Depth to Water

**USCS** 

SM

SC

SM

Logged By

(Page 2 of 2) : J. Barraza

: 37' bgs

: L. Price

Bentonite Seal

2" SCH 40 PVC Casing

10/20 Silica Sand

0.020"

Screen

Project Name: OCD - Enersource Monument, NM

Project #: NMGSD.M002.ENER

in Feet

30

45

50

55

**Date Started** : 5/25/2012 **Date Completed** : 5/25/2012 **Drilling Method** : HSA 7 5/8" OD Sampling Method : Continuous 5' Core **Drilling Company** : Precision Sampling

PID Reading (ppm) Sample Interval Recovery (%) Well: MW-14 GRAPHIC Depth TOC = 3578.82

**DESCRIPTION** 

SILTY SAND w/ some Caliche, same as previous 50 1.728 No recovery from 34' to 37' bgs SM 35 1,356 588 35 [37'-38' PID = 1,356] SILTY SAND, poorly graded, dark gray and gray, black stained soil at 38.2' bgs, fine-grained sand, some gravel, dense, weak HCL, moist to wet SILTY SAND, poorly graded, reddish-brown, fine-grained sand, with SC caliche, very dense, well cemented, strong HCL, dry from 38'-39' bgs 40 [38'-39' PID = 588] SW [39'-42' PID = 108] CLAYEY SAND, poorly graded, reddish-brown, fine-grained sand with 70 trace medium-grained sand, low plasticity, weak HCL, moist SAND, well graded, reddish-brown, fine- to medium-grained sand, SC

subrounded, loose, weak HCL, wet [42'-44' PID = 36.9 ] CLAYEY SAND w/ Gravel, poorly graded, reddish-brown, fine-grained sand, low plasticity, weak HCL, dry

[44'-48' PID = 19.1]

SILTY SAND w/ some Gravel, poorly graded, red, fine to medium-grained sand, loose, weak HCL, moist CLAYEY SAND w/ some Gravel, poorly graded, red, fine- to

medium-grained sand, low plasticity, loose, weak HCL, moist [48'-50' PID = 3.8]

SILTY SAND, poorly graded, pink, fine-grained sand, very dense, well cemented, strong HCL, dry

Not sampled

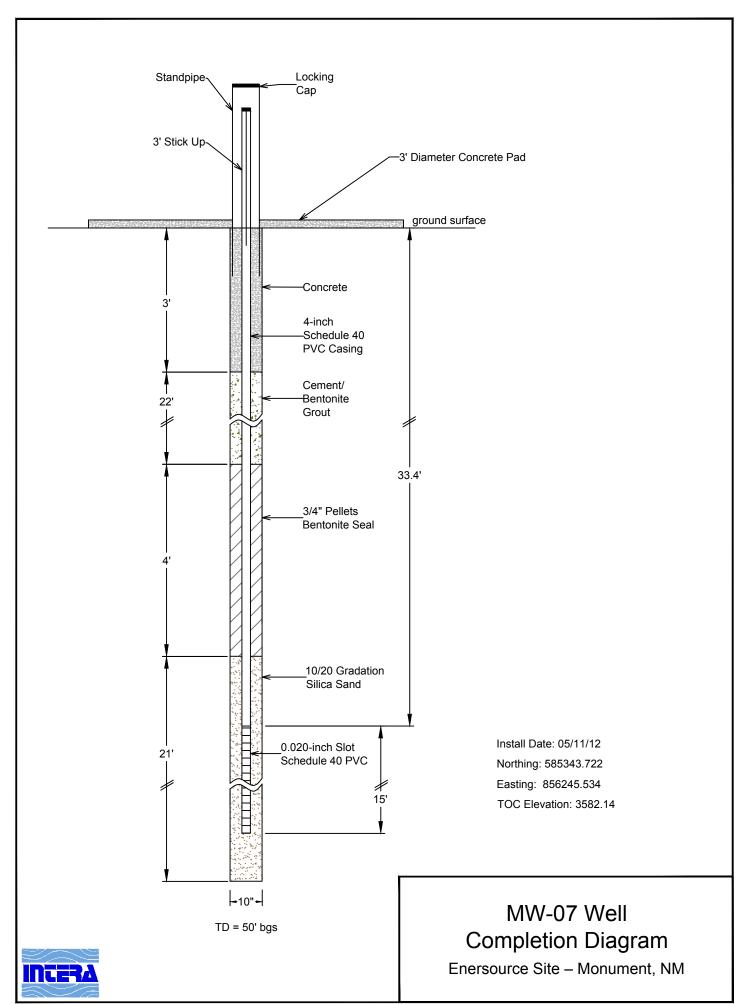
Bottom of boring at 51' bgs

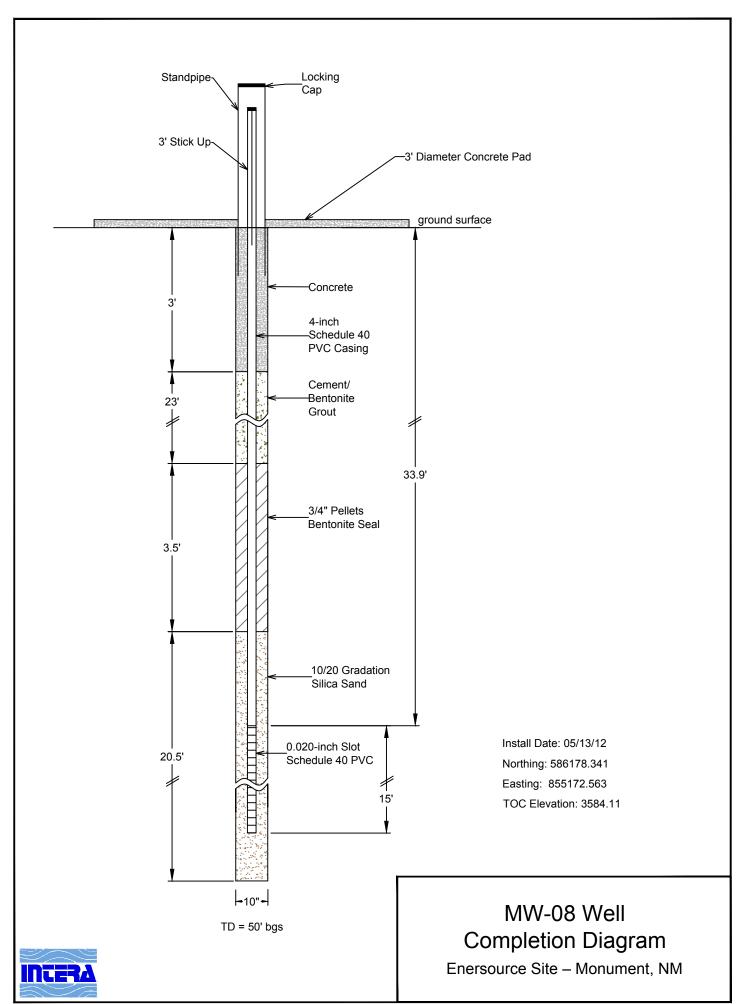
## 60

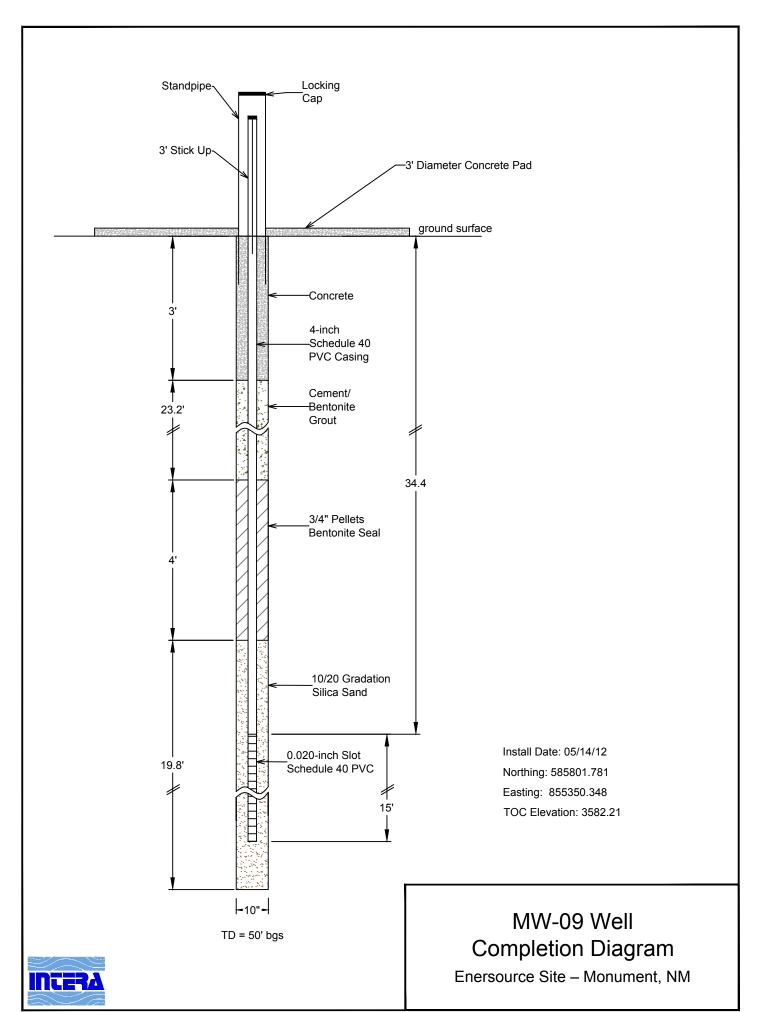
- 1. X = Sample interval sent for laboratory analysis
- 2. Posthole = 0'-4' bgs
- 3. Since getting low recovery in each 5' spoon, pushed an extra foot at the 44-50 interval
- 4. Depth to water noted during drilling

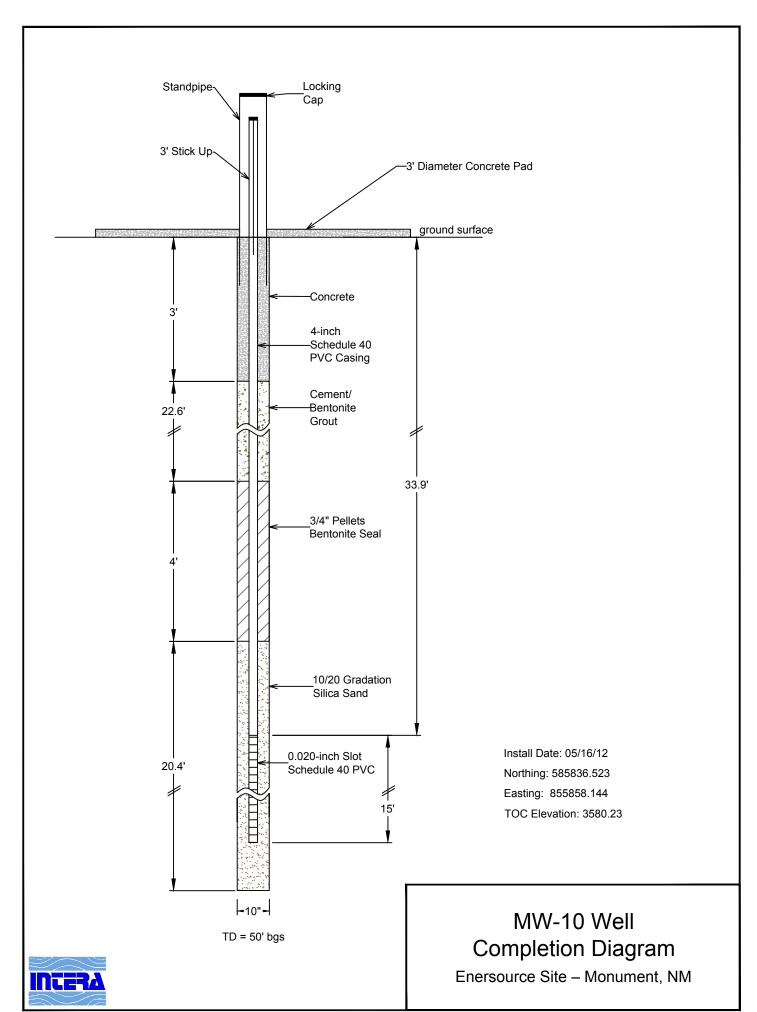
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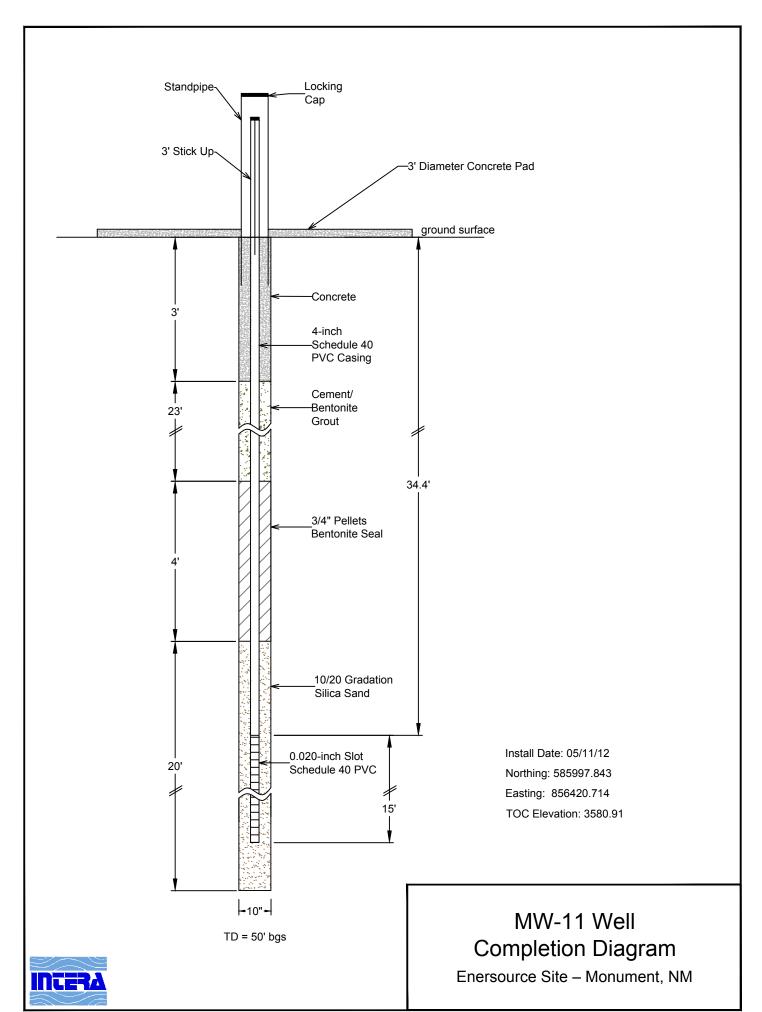
19.1

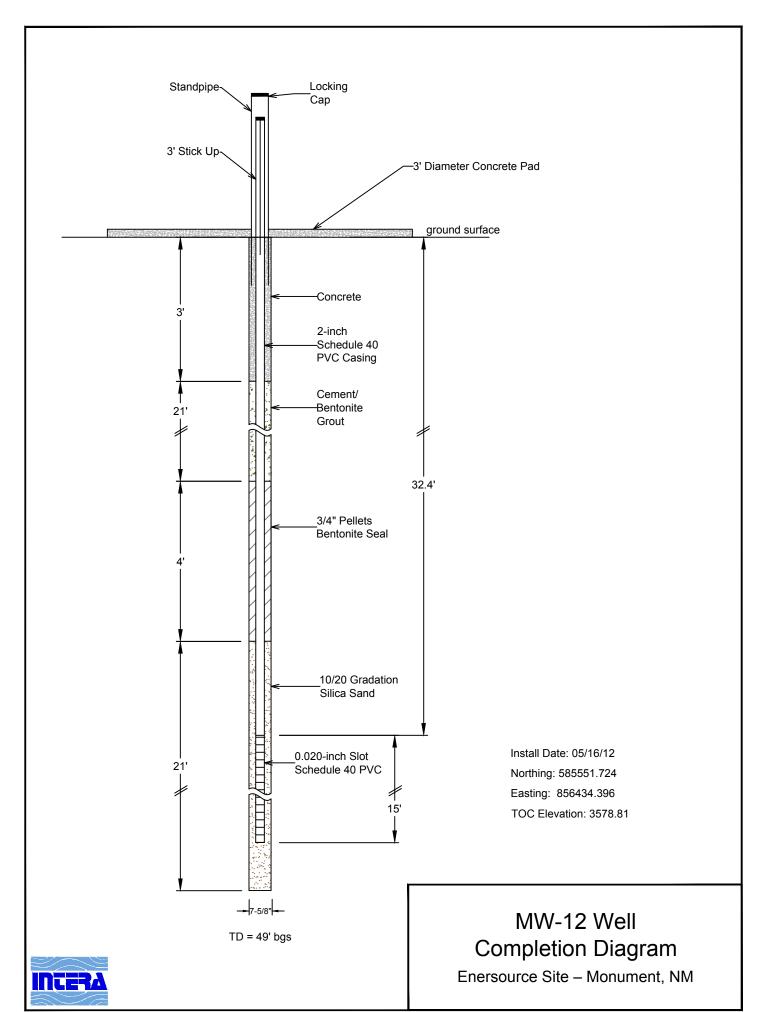


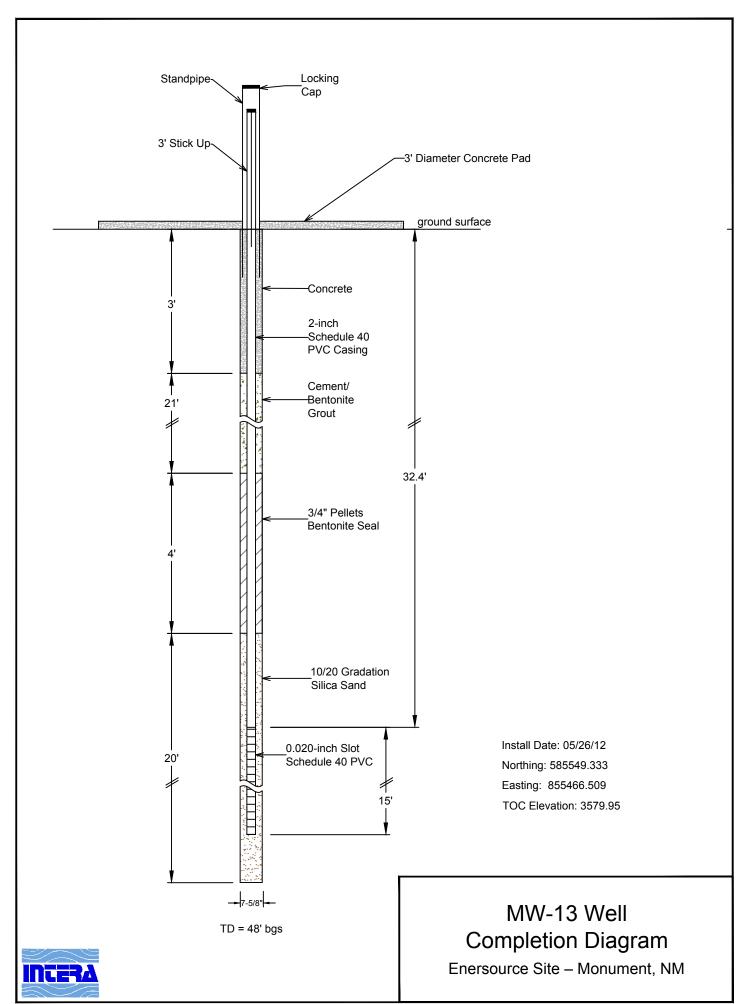


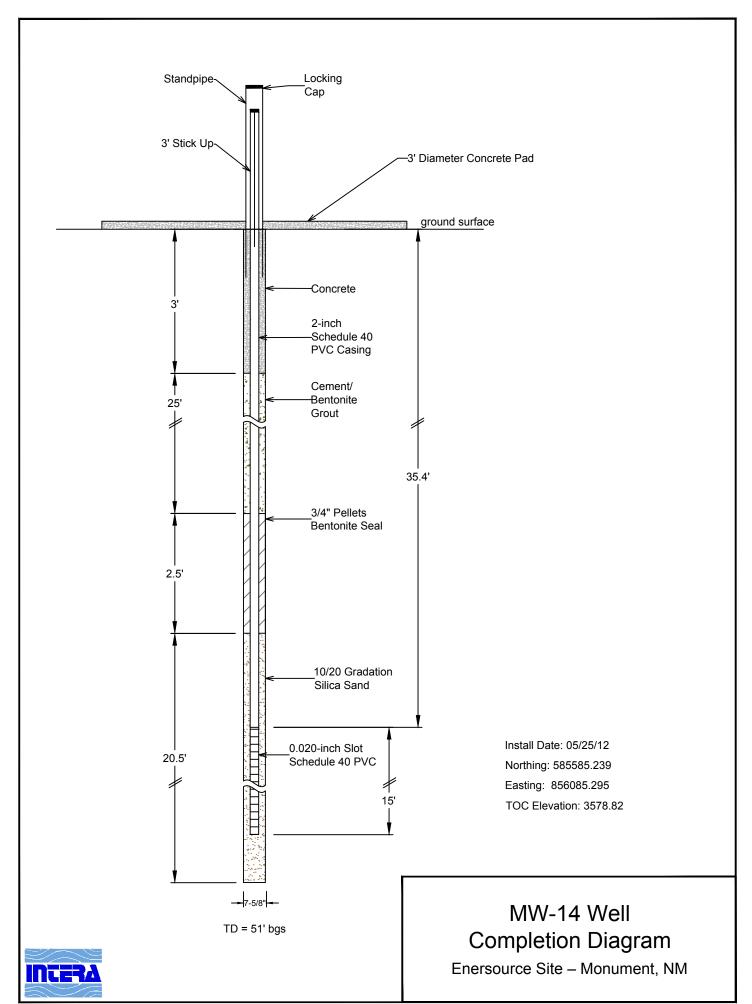














Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 503093 File Nbr: L 12993

May. 02, 2012

JOE A. GALEMORE
INTERA INCORPORATED
6000 UPTOWN BLVD, NE
SUITE 220
ALBUQUERQUE, NM 87110

#### Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 05/31/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Margaret Wolf (575)622-6521

Enclosure

explore

# NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE / MONITOR

#### SPECIFIC CONDITIONS OF APPROVAL

- 1B Depth of the well shall not exceed the thickness of the Ogallala formation.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.
- C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.
- LOG The Point of Diversion L 12993 POD1 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD2 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD3 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD4 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD5 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD6 must be completed and the Well Log filed on or before 05/31/2013.

Trn Desc: L 12993 (9 MONITOR WELLS) File Number: L 12993

Trn Number: 503093

#### NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE / MONITOR

#### SPECIFIC CONDITIONS OF APPROVAL (Continued)

- LOG The Point of Diversion L 12993 POD7 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD8 must be completed and the Well Log filed on or before 05/31/2013.
- LOG The Point of Diversion L 12993 POD9 must be completed and the Well D g Log filed on or before 05/31/2013.

No water shall be diverted from these wells except for testing purposes which shall not exceed ten (10) cumulative days unless a permit to use water from these wells is acquired from the Office of the State Engineer.

Should the permittee change the purpose of use to other than monitoring purposes, an application shall be acquired from the Office of the State Engineer.

The wells shall be constructed, maintained and operated that each water shall be confined to the aquifer in which it is encountered.

#### ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 05/01/2012 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this <u>02</u> day of <u>May</u> A.D., <u>2012</u>

Scott A. Verhines, P.E. , State Engineer

Andy Morley

Trn Desc: L 12993 (9 MONITOR WELLS) File Number: L 12993

Trn Number: 503093

File No.	

# **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

· vile	For fees, see State Engineer wet	osite: http://www.ose.state.nm.	
Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal	TATE ENOROS WELL
☐ Exploratory	☐ Construction Site De-Watering	Other (Describe):	
	☐ Mineral De-Watering		NGINEER O
A separate permit will	be required to apply water to beneficial use.		2: U
☐ Temporary Reque	st - Requested Start Date:	Requested	I End Date:
Plugging Plan of Ope	erations Submitted?  Yes  No		
Oil Conservation Di	Energy, Minerals, and Natural Resources; vision  check here if Agent	Name: INTERA Incorpor	rated check here if Agent ⊠
Name: New Mexico	vision	-	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Name: New Mexico   Oil Conservation Dir Contact or Agent: Jim Griswold	vision	Contact or Agent: Joe A. Galemore	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Name: New Mexico   Oil Conservation Dir Contact or Agent: Jim Griswold	check here if Agent	Contact or Agent: Joe A. Galemore	check here if Agent 🛛
Name: New Mexico   Oil Conservation Di Contact or Agent: Jim Griswold  Mailing Address: 122	check here if Agent	Contact or Agent: Joe A. Galemore  Mailing Address: 6000 Up	check here if Agent 🛛
Name: New Mexico I Oil Conservation Dis Contact or Agent: Jim Griswold  Mailing Address: 122  City: Santa Fe  State: NM  Phone:	check here if Agent   O South St. Francis Drive  Zip Code: 87505	Contact or Agent: Joe A. Galemore  Mailing Address: 6000 Up  City: Albuquerque  State: NM  Phone:	check here if Agent   otown Blvd., NE; Suite 220  Zip Code: 87110  Home Cell
Name: New Mexico   Oil Conservation Dir Contact or Agent: Jim Griswold  Mailing Address: 122  City: Santa Fe  State: NM  Phone: Phone (Work): 505-4	check here if Agent   O South St. Francis Drive  Zip Code: 87505	Contact or Agent: Joe A. Galemore  Mailing Address: 6000 Up  City: Albuquerque  State: NM	check here if Agent   btown Blvd., NE; Suite 220  Zip Code: 87110  Home Cell

FOR OSE INTERNAL USE	Application for Permit, Form wr-07, Rev 8/25/11				
File Number: L - 12993	Trn Number: 503093				
Trans Description (optional): 9 Monitor	- Wells				
Sub-Basin: $\angle$					
PCW/LOG Due Date: 05/31/2013	-				

#### 2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordin (Lat/Long - WGS84)	ate location must be	e reported in NM S	tate Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude			
NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone		JTM (NAD83) (Mete ]Zone 12N ]Zone 13N	rs) \( \sum Lat/Long (WGS84) (to the nearest 1/10 <sup>th</sup> of second)			
Well Number (if known):	X or Easting or Latitude:	Y or Northing or Longitude:	Optional: Complete boxes labeled "Other" below with PLSS (Public Land Survey System, i.e. Quarters, Section, Township, Range); Hydrographic Survey Map & Tract; Lot, Block & Subdivision; OR Land Grant Name if known.			
MW-07	32° 36' 27.7"	-103° 18' 38.8"	SW14NE114NW114			
			Sec 1, Twp 205, Rge 36€			
MW-08	32° 36' 25.7"	-103° 18' 51.5"	SW14 NW14 NW14			
			Sec 1, Two 205, Rg & 36 8 50			
MW-09	32° 36' 23.1"	-103° 18' 49.4"	SE'14 NW14 NW14			
			Sec 1, Twp 205, Rge 36 5			
MW-10	32° 36' 23.2"	-103° 18' 42.4"	SW14 NE14 NW14			
			Sec 1, Twp 205, Rg e 36 E 05 SE 1/4 NW1/4 NW1/4  Sec 1, Twp 205, Rge 36 E 05 SW1/4 NE1/4 NW1/4  Sec 1, Twp 205, Rge 36 E N  SW1/4 NE1/4 NW1/4  Sec 1, Twp 205, Rge 36 E N  SW1/4 NE1/4 NW1/4  Sec 1, Twp 205, Rge 36 E			
MW-11	32° 36' 24.2"	-103° 18' 37.5"	SW14 NE14 NW14			
			Sec 1, Trup 205, Rge 366			
			WK-00 (Attachment 1 – POD Descriptions)			
Additional well descriptions Other description relating well			If yes, how many 4NA			
		,,				
Well is on land owned by: End	ersource And New N	flexico State Land (	Office			
Well Information: NOTE: If r	nore than one (1) we	ell needs to be des	cribed, provide attachment. Attached?   Yes  No			
If yes, how many	<del></del>					
Approximate depth of well (fee			Outside diameter of well casing (inches): 4.00			
Driller Name: New Mexico Li	censed Driller	0	riller License Number: TBD			
3. ADDITIONAL STATEMENTS OR EXPLANATIONS  A maximum of nine monitoring wells are prposed to be installed for the purpose of monitoring groundwater quality at and near a former refinary. The locations stated are approximate and may change slightly depending on findings of the investigation.						
Fewer wells may be installed	l if contamination is erals, and Natural R	found to be less th	nan predicted. INTERA Incorporated is under contract with ent, Oil Conservation Division, who is regulating the site and			

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: L-12993 Trn Number: 503093



# **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

	- 110			
a. Is this a:				ion on Attachment(s):
Move-From Point of Div	` '		Number of p	points of diversion involved in the application:
☐ Move-To Point of Divers	sion(s)		Total number	er of pages attached to the application:
☐ Surface Point of Diversion	OR [	⊠ Well		
Name of ditch, acequia,	or spring:			
Stream or water course:				
Tributary of:				
c. Location (Required): Required: Move to POD location	coordinate must be	e either New Mex	ico State Plan	ne (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)
NM State Plane (NAD83)	UTM (NAD83)		•	OTHER (allowable only for move-from
(feet)	(meters)	⊠ Lat/	Long	descriptions - see application form for format)
NM West Zone	Zone 13N 🔲	(WGS8		☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract
NM Central Zone	Zone 12N 🔲	1/10 <sup>th</sup> o	fsecond	Lot, Block & Subdivision
NM East Zone				☐ Grant
POD Number: MW-12	X or Longitude 32	2° 36' 27.4" Y	or Latitude	Other Location Description: Sω'I4 ΝΕ'I4 Νω'I4
	-103° 18' 36.4"			Sect, Twp 205, Rge 366
POD Number: MW-13	X or Longitude 32	2° 36' 20.2" Y	or Latitude	Other Location Description:
	-103° 18' 47.7"			NEULYSWILL NWILL DISTANCE
DOD North and Ballet 4.4	V and annihuda 22	9 26! 20 211 1/		Sec 1, Twp 205, Rge 36 E
POD Number: MW-14	X or Longitude 32 -103° 18' 41.2"	2° 36 20.3" Y	or Latitude	Other Location Description: NW14 SE14 NW14
				Sec 1, Twp 205, Rge 366
POD Number: MW-15	X or Longitude 32	2° 36' 20.4" Y	or Latitude-	Other Location Description: Nいり4SEリ4 Nいり4
	103° 18' 36.7"			Sec 1, Twp 205, Rge 36 E
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
1 Ob Number.	X or congrado	i oi Lat	tuuo	Other Location Description.
	==:::			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description
				SWE
POD Number:	X or Longitude	Y or Lati	tude	Other Leasting Departure
rob Number.	X or Longitude	1 Of Lati	lade	Other Location Description:
				Le Carlos
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description
				2: 29
POD Number:	X or Longitude	Y or Lati	tudo	
FOD Mullipel.	A or Longitude	r Or Lati	iuu <del>o</del>	Other Location Description?
			1997	7

FOR OSE INTERNAL USE

Form wr-08

POD DESCRIPTIONS - ATTACHMENT 1

File Number: L-12993	Tm Number: 503093
Trans Description (optional):	Monitor Wells

Exploratory:  Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery:  Include a plan for pollution control/recovery, that includes the following:  A description of the need for the pollution control or recovery operation.  The estimated maximum period of time for completion of the operation.  The annual diversion amount.  The annual consumptive use amount.  The maximum amount of water to be diverted and injected for the duration of the operation.  The method and place of discharge	f A description of how the diverted water will be disposed	Mine De-Watering:  Include a plan for pollution control/recovery, that includes the following:  A description of the need for mine dewatering.  The estimated maximum period of time for completion of the operation.  The source(s) of the water to be diverted The geohydrologic characteristics of the aquifer(s).  The maximum amount of water to be diverted per annum.  The maximum amount of water to be diverted for the duration of the operation.  The quality of the water.
Monitoring:	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land of which the pollution plume control or recovery well is to be located.	Geo-Thermal:	□ The method of measurement of water diverted. □ The recharge of water to the aquifer. □ Description of the estimated area of hydrologic effect of the project. □ The method and place of discharge. □ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. □ A description of the methods employed to estimate effects on surface water rights and underground water rights. □ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
		ACKNOWLEDGEMENT	STAI ROSI 7012
I, We (name of	applicant(s)), JAm	Print Name(s)	
affirm that the fo	pregoing statements are true to the best	~ /	WGINEER D
allilli tilat tile it	oregoing statements are true to the best	or (my, our) knowledge and belief.	7
C for	Early		2 9
Applicant Signa	ture /	Applicant Signature	9 FI
	ACTIO	N OF THE STATE ENGINEER	-IH
	approved not exercised to the detriment of any othe trimental to the public welfare and furthe	ers having existing rights, and is not o	☐ denied conservation of water in New f approval.
Witness my han	nd and seal this <u>2nd</u> day of	<u>May</u> 20 12 ,	for the State Engineer,
× _			
Scott /	A. Verhines, P.E.	, State Engineer	
By: Signature	holy Moly	Print	
_	orley, Acting District II M	anager	
			Application for Berry's Farm v. C7
	1 - 1	OSE INTERNAL USE	Application for Permit, Form wr-07

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate

# APPENDIX F Laboratory Reports



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

May 24, 2012

Joe Galemore

Intera, Inc.

6000 Uptown Boulevard, NE Suite 220

Albuquerque, NM 87110 TEL: (505) 239-6414

FAX (505) 246-2600

RE: Enersource OrderNo.: 1205815

#### Dear Joe Galemore:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/17/2012 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-07 (14'-19')

 Project:
 Enersource
 Collection Date: 5/8/2012 10:10:00 AM

 Lab ID:
 1205815-001
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	2,900	97		mg/Kg	10	5/22/2012 3:33:42 PM
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	5/22/2012 3:33:42 PM
Surr: DNOP	0	82.1-121	S	%REC	10	5/22/2012 3:33:42 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	250	Н	mg/Kg	50	5/23/2012 11:19:54 AM
Surr: BFB	93.4	69.7-121	Н	%REC	50	5/23/2012 11:19:54 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	31	7.5		mg/Kg	5	5/21/2012 7:09:13 PM
EPA METHOD 8270C: SEMIVOLATI	LES					Analyst: <b>JDC</b>
Acenaphthene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Acenaphthylene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Aniline	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Anthracene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Azobenzene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Benzoic acid	ND	0.50		mg/Kg	1	5/23/2012 7:29:12 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	5/23/2012 7:29:12 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Carbazole	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	5/23/2012 7:29:12 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	5/23/2012 7:29:12 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	5/23/2012 7:29:12 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Chrysene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	5/23/2012 7:29:12 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	5/23/2012 7:29:12 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
Dibenzofuran	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 7:29:12 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc.

**Client Sample ID:** MW-07 (14'-19')

**Collection Date:** 5/8/2012 10:10:00 AM **Project:** Enersource

1205815-001 Matrix: MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM Lab ID:

Analyses	Result	RL (	Qual Units	s DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLAT	ILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/K	(g 1	5/23/2012 7:29:12 PM
3,3´-Dichlorobenzidine	ND	0.25	mg/K	=	5/23/2012 7:29:12 PM
Diethyl phthalate	ND	0.20	mg/K	=	5/23/2012 7:29:12 PM
Dimethyl phthalate	ND	0.20	mg/K	=	5/23/2012 7:29:12 PM
2,4-Dichlorophenol	ND	0.40	mg/K	(g 1	5/23/2012 7:29:12 PM
2,4-Dimethylphenol	ND	0.30	mg/K	(g 1	5/23/2012 7:29:12 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/K	(g 1	5/23/2012 7:29:12 PM
2,4-Dinitrophenol	ND	0.40	mg/k	(g 1	5/23/2012 7:29:12 PM
2,4-Dinitrotoluene	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
2,6-Dinitrotoluene	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
Fluoranthene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Fluorene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Hexachlorobenzene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Hexachlorobutadiene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Hexachlorocyclopentadiene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Hexachloroethane	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Isophorone	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
1-Methylnaphthalene	8.0	1.0	mg/k	(g 5	5/24/2012 12:19:48 PM
2-Methylnaphthalene	8.2	1.0	mg/k	(g 5	5/24/2012 12:19:48 PM
2-Methylphenol	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
3+4-Methylphenol	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
N-Nitrosodiphenylamine	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Naphthalene	1.4	0.20	mg/K	(g 1	5/23/2012 7:29:12 PM
2-Nitroaniline	ND	0.20	mg/K	(g 1	5/23/2012 7:29:12 PM
3-Nitroaniline	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
4-Nitroaniline	ND	0.40	mg/k	(g 1	5/23/2012 7:29:12 PM
Nitrobenzene	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
2-Nitrophenol	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
4-Nitrophenol	ND	0.25	mg/k	(g 1	5/23/2012 7:29:12 PM
Pentachlorophenol	ND	0.40	mg/k	(g 1	5/23/2012 7:29:12 PM
Phenanthrene	0.90	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Phenol	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Pyrene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
Pyridine	ND	0.50	mg/k	(g 1	5/23/2012 7:29:12 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
2,4,5-Trichlorophenol	ND	0.20	mg/k	(g 1	5/23/2012 7:29:12 PM
2,4,6-Trichlorophenol	ND	0.20	mg/k		5/23/2012 7:29:12 PM
Surr: 2,4,6-Tribromophenol	11.9	20.1-121	S %RE	C 1	5/23/2012 7:29:12 PM
Surr: 2-Fluorobiphenyl	50.5	19-133	%RE		5/23/2012 7:29:12 PM
Surr: 2-Fluorophenol	75.5	20.2-108	%RE	C 1	5/23/2012 7:29:12 PM

Qualifiers:

Spike Recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level. \*/X

Ε Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-07 (14'-19')

 Project:
 Enersource
 Collection Date: 5/8/2012 10:10:00 AM

 Lab ID:
 1205815-001
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILE	S				Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	68.3	18.9-115	%REC	1	5/23/2012 7:29:12 PM
Surr: Nitrobenzene-d5	0	20.8-123	S %REC	1	5/23/2012 7:29:12 PM
Surr: Phenol-d5	78.8	19.8-115	%REC	1	5/23/2012 7:29:12 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Toluene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Ethylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Methyl tert-butyl ether (MTBE)	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2,4-Trimethylbenzene	9.1	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,3,5-Trimethylbenzene	3.0	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2-Dichloroethane (EDC)	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2-Dibromoethane (EDB)	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Naphthalene	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
1-Methylnaphthalene	ND	10	mg/Kg	50	5/18/2012 7:18:50 PM
2-Methylnaphthalene	ND	10	mg/Kg	50	5/18/2012 7:18:50 PM
Acetone	ND	38	mg/Kg	50	5/18/2012 7:18:50 PM
Bromobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Bromodichloromethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Bromoform	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Bromomethane	ND	7.5	mg/Kg	50	5/18/2012 7:18:50 PM
2-Butanone	ND	25	mg/Kg	50	5/18/2012 7:18:50 PM
Carbon disulfide	ND	25	mg/Kg	50	5/18/2012 7:18:50 PM
Carbon tetrachloride	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Chlorobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Chloroethane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Chloroform	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Chloromethane	ND	7.5	mg/Kg	50	5/18/2012 7:18:50 PM
2-Chlorotoluene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
4-Chlorotoluene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
cis-1,2-DCE	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
cis-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2-Dibromo-3-chloropropane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Dibromochloromethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Dibromomethane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
1,2-Dichlorobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,3-Dichlorobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,4-Dichlorobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Dichlorodifluoromethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,1-Dichloroethane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
1,1-Dichloroethene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2-Dichloropropane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-07 (14'-19')

**Project:** Enersource Collection Date: 5/8/2012 10:10:00 AM

**Lab ID:** 1205815-001 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
2,2-Dichloropropane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
1,1-Dichloropropene	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Hexachlorobutadiene	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
2-Hexanone	ND	25	mg/Kg	50	5/18/2012 7:18:50 PM
Isopropylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
4-Isopropyltoluene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
4-Methyl-2-pentanone	ND	25	mg/Kg	50	5/18/2012 7:18:50 PM
Methylene chloride	ND	7.5	mg/Kg	50	5/18/2012 7:18:50 PM
n-Butylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
n-Propylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
sec-Butylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Styrene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
tert-Butylbenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,1,1,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,1,2,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Tetrachloroethene (PCE)	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
trans-1,2-DCE	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
trans-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2,3-Trichlorobenzene	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
1,2,4-Trichlorobenzene	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,1,1-Trichloroethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,1,2-Trichloroethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Trichloroethene (TCE)	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Trichlorofluoromethane	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
1,2,3-Trichloropropane	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Vinyl chloride	ND	2.5	mg/Kg	50	5/18/2012 7:18:50 PM
Xylenes, Total	ND	5.0	mg/Kg	50	5/18/2012 7:18:50 PM
Surr: 1,2-Dichloroethane-d4	84.2	70-130	%REC	50	5/18/2012 7:18:50 PM
Surr: 4-Bromofluorobenzene	79.9	70-130	%REC	50	5/18/2012 7:18:50 PM
Surr: Dibromofluoromethane	82.3	71.7-132	%REC	50	5/18/2012 7:18:50 PM
Surr: Toluene-d8	93.0	70-130	%REC	50	5/18/2012 7:18:50 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc.

**Client Sample ID:** MW-11 (29'-34')

 Project:
 Enersource
 Collection Date: 5/10/2012 9:00:00 AM

 Lab ID:
 1205815-002
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

**RL Qual Units** DF Analyses Result **Date Analyzed EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP Diesel Range Organics (DRO) 99 mg/Kg 10 5/22/2012 3:55:42 PM ND Motor Oil Range Organics (MRO) 500 mg/Kg 10 5/22/2012 3:55:42 PM Surr: DNOP 0 82.1-121 S %REC 10 5/22/2012 3:55:42 PM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 56 10 5/23/2012 11:48:45 AM 50 mg/Kg Surr: BFB 115 69.7-121 %REC 10 5/23/2012 11:48:45 AM **EPA METHOD 300.0: ANIONS** Analyst: BRM Chloride 120 7.5 mg/Kg 5 5/21/2012 7:34:03 PM **EPA METHOD 8270C: SEMIVOLATILES** Analyst: JDC Acenaphthene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Acenaphthylene Aniline ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Anthracene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Azobenzene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 5/23/2012 8:58:15 PM Benz(a)anthracene 0.20 mg/Kg 1 Benzo(a)pyrene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Benzo(b)fluoranthene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.20 Benzo(g,h,i)perylene mg/Kg 1 5/23/2012 8:58:15 PM Benzo(k)fluoranthene ND 0.20 mg/Kg 5/23/2012 8:58:15 PM 1 Benzoic acid ND 0.50 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.20 5/23/2012 8:58:15 PM Benzyl alcohol mg/Kg 1 Bis(2-chloroethoxy)methane ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Bis(2-chloroethyl)ether ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.20 5/23/2012 8:58:15 PM Bis(2-chloroisopropyl)ether mg/Kg 1 Bis(2-ethylhexyl)phthalate ND 0.50 mg/Kg 1 5/23/2012 8:58:15 PM 0.20 5/23/2012 8:58:15 PM 4-Bromophenyl phenyl ether ND mg/Kg 1 Butyl benzyl phthalate ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Carbazole ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.50 4-Chloro-3-methylphenol mg/Kg 1 5/23/2012 8:58:15 PM 4-Chloroaniline ND 0.50 mg/Kg 1 5/23/2012 8:58:15 PM 0.25 2-Chloronaphthalene ND 5/23/2012 8:58:15 PM mg/Kg 1 2-Chlorophenol ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.20 5/23/2012 8:58:15 PM 4-Chlorophenyl phenyl ether mg/Kg 1 Chrysene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 0.50 Di-n-butyl phthalate mg/Kg 1 5/23/2012 8:58:15 PM Di-n-octyl phthalate ND 0.25 mg/Kg 1 5/23/2012 8:58:15 PM Dibenz(a,h)anthracene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM Dibenzofuran ND 0.20 mg/Kg 5/23/2012 8:58:15 PM 1 1.2-Dichlorobenzene ND 0.20 mg/Kg 1 5/23/2012 8:58:15 PM ND 1,3-Dichlorobenzene 0.20 mg/Kg 5/23/2012 8:58:15 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. **Client Sample ID:** MW-11 (29'-34')

**Project:** Enersource **Collection Date:** 5/10/2012 9:00:00 AM 1205815-002 Matrix: MEOH (SOIL) Lab ID: **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLA	ΓILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
3,3'-Dichlorobenzidine	ND	0.25	mg/Kg	1	5/23/2012 8:58:15 PM
Diethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Dimethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
2,4-Dichlorophenol	ND	0.40	mg/Kg	1	5/23/2012 8:58:15 PM
2,4-Dimethylphenol	ND	0.30	mg/Kg	1	5/23/2012 8:58:15 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
2,4-Dinitrophenol	ND	0.40	mg/Kg	1	5/23/2012 8:58:15 PM
2,4-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
2,6-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
Fluoranthene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Fluorene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Hexachlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Hexachlorobutadiene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Hexachlorocyclopentadiene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Hexachloroethane	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Isophorone	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
1-Methylnaphthalene	3.6	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
2-Methylnaphthalene	4.1	0.40	mg/Kg	2	5/24/2012 12:48:57 PM
2-Methylphenol	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
3+4-Methylphenol	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Naphthalene	0.85	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
2-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
3-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
4-Nitroaniline	ND	0.40	mg/Kg	1	5/23/2012 8:58:15 PM
Nitrobenzene	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
2-Nitrophenol	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
4-Nitrophenol	ND	0.25	mg/Kg	1	5/23/2012 8:58:15 PM
Pentachlorophenol	ND	0.40	mg/Kg	1	5/23/2012 8:58:15 PM
Phenanthrene	0.46	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Phenol	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Pyrene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Pyridine	ND	0.50	mg/Kg	1	5/23/2012 8:58:15 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 8:58:15 PM
Surr: 2,4,6-Tribromophenol	41.2	20.1-121	%REC	1	5/23/2012 8:58:15 PM
Surr: 2-Fluorobiphenyl	58.6	19-133	%REC	1	5/23/2012 8:58:15 PM
Surr: 2-Fluorophenol	67.2	20.2-108	%REC	1	5/23/2012 8:58:15 PM

Qualifiers:

Spike Recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level. \*/X

Ε Value above quantitation range

Analyte detected below quantitation limits

R RPD outside accepted recovery limits

J

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-11 (29'-34')

 Project:
 Enersource
 Collection Date: 5/10/2012 9:00:00 AM

 Lab ID:
 1205815-002
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATIL	ES				Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	73.1	18.9-115	%REC	1	5/23/2012 8:58:15 PM
Surr: Nitrobenzene-d5	55.5	20.8-123	%REC	1	5/23/2012 8:58:15 PM
Surr: Phenol-d5	75.2	19.8-115	%REC	1	5/23/2012 8:58:15 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Toluene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Ethylbenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Methyl tert-butyl ether (MTBE)	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,2,4-Trimethylbenzene	2.1	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,3,5-Trimethylbenzene	0.58	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,2-Dichloroethane (EDC)	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,2-Dibromoethane (EDB)	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Naphthalene	0.90	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
1-Methylnaphthalene	2.5	1.0	mg/Kg	5	5/18/2012 9:11:13 PM
2-Methylnaphthalene	3.1	1.0	mg/Kg	5	5/18/2012 9:11:13 PM
Acetone	ND	3.8	mg/Kg	5	5/18/2012 9:11:13 PM
Bromobenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Bromodichloromethane	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Bromoform	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Bromomethane	ND	0.75	mg/Kg	5	5/18/2012 9:11:13 PM
2-Butanone	ND	2.5	mg/Kg	5	5/18/2012 9:11:13 PM
Carbon disulfide	ND	2.5	mg/Kg	5	5/18/2012 9:11:13 PM
Carbon tetrachloride	ND	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
Chlorobenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Chloroethane	ND	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
Chloroform	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Chloromethane	ND	0.75	mg/Kg	5	5/18/2012 9:11:13 PM
2-Chlorotoluene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
4-Chlorotoluene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
cis-1,2-DCE	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
cis-1,3-Dichloropropene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,2-Dibromo-3-chloropropane	ND	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
Dibromochloromethane	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Dibromomethane	ND	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
1,2-Dichlorobenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,3-Dichlorobenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,4-Dichlorobenzene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
Dichlorodifluoromethane	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,1-Dichloroethane	ND	0.50	mg/Kg	5	5/18/2012 9:11:13 PM
1,1-Dichloroethene	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM
1,2-Dichloropropane	ND	0.25	mg/Kg	5	5/18/2012 9:11:13 PM

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

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc.

**Client Sample ID:** MW-11 (29'-34')

**Project:** Enersource Collection Date: 5/10/2012 9:00:00 AM

**Lab ID:** 1205815-002 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,3-Dichloropropane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
2,2-Dichloropropane	ND	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
1,1-Dichloropropene	ND	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
Hexachlorobutadiene	ND	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
2-Hexanone	ND	2.5		mg/Kg	5	5/18/2012 9:11:13 PM
Isopropylbenzene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
4-Isopropyltoluene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
4-Methyl-2-pentanone	ND	2.5		mg/Kg	5	5/18/2012 9:11:13 PM
Methylene chloride	ND	0.75		mg/Kg	5	5/18/2012 9:11:13 PM
n-Butylbenzene	0.50	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
n-Propylbenzene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
sec-Butylbenzene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
Styrene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
tert-Butylbenzene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,1,1,2-Tetrachloroethane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
trans-1,2-DCE	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,2,3-Trichlorobenzene	ND	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
Trichlorofluoromethane	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
Vinyl chloride	ND	0.25		mg/Kg	5	5/18/2012 9:11:13 PM
Xylenes, Total	0.56	0.50		mg/Kg	5	5/18/2012 9:11:13 PM
Surr: 1,2-Dichloroethane-d4	79.9	70-130		%REC	5	5/18/2012 9:11:13 PM
Surr: 4-Bromofluorobenzene	56.4	70-130	S	%REC	5	5/18/2012 9:11:13 PM
Surr: Dibromofluoromethane	76.5	71.7-132		%REC	5	5/18/2012 9:11:13 PM
Surr: Toluene-d8	88.6	70-130		%REC	5	5/18/2012 9:11:13 PM

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

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-08 (14'-19')

**Project:** Enersource Collection Date: 5/12/2012 1:45:00 PM

**Lab ID:** 1205815-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	43	10		mg/Kg	1	5/22/2012 1:41:02 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	5/22/2012 1:41:02 PM
Surr: DNOP	82.3	82.1-121		%REC	1	5/22/2012 1:41:02 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	100	10		mg/Kg	2	5/23/2012 12:17:33 PM
Surr: BFB	691	69.7-121	S	%REC	2	5/23/2012 12:17:33 PM
EPA METHOD 300.0: ANIONS						Analyst: <b>BRM</b>
Chloride	570	30		mg/Kg	20	5/21/2012 8:11:17 PM
EPA METHOD 8270C: SEMIVOLATI	LES					Analyst: <b>JDC</b>
Acenaphthene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Acenaphthylene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Aniline	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Azobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Benzoic acid	ND	0.50		mg/Kg	1	5/23/2012 9:27:47 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	5/23/2012 9:27:47 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Carbazole	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	5/23/2012 9:27:47 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	5/23/2012 9:27:47 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	5/23/2012 9:27:47 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Chrysene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	5/23/2012 9:27:47 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	5/23/2012 9:27:47 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
Dibenzofuran	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:27:47 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc.

**Client Sample ID:** MW-08 (14'-19')

**Project:** Enersource Collection Date: 5/12/2012 1:45:00 PM

**Lab ID:** 1205815-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLA	TILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
3,3´-Dichlorobenzidine	ND	0.25	mg/Kg	1	5/23/2012 9:27:47 PM
Diethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Dimethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2,4-Dichlorophenol	ND	0.40	mg/Kg	1	5/23/2012 9:27:47 PM
2,4-Dimethylphenol	ND	0.30	mg/Kg	1	5/23/2012 9:27:47 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
2,4-Dinitrophenol	ND	0.40	mg/Kg	1	5/23/2012 9:27:47 PM
2,4-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
2,6-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
Fluoranthene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Fluorene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Hexachlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Hexachlorobutadiene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Hexachlorocyclopentadiene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Hexachloroethane	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Isophorone	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
1-Methylnaphthalene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2-Methylnaphthalene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2-Methylphenol	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
3+4-Methylphenol	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Naphthalene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
3-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
4-Nitroaniline	ND	0.40	mg/Kg	1	5/23/2012 9:27:47 PM
Nitrobenzene	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
2-Nitrophenol	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
4-Nitrophenol	ND	0.25	mg/Kg	1	5/23/2012 9:27:47 PM
Pentachlorophenol	ND	0.40	mg/Kg	1	5/23/2012 9:27:47 PM
Phenanthrene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Phenol	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Pyrene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Pyridine	ND	0.50	mg/Kg	1	5/23/2012 9:27:47 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 9:27:47 PM
Surr: 2,4,6-Tribromophenol	72.5	20.1-121	%REC	1	5/23/2012 9:27:47 PM
Surr: 2-Fluorobiphenyl	74.9	19-133	%REC	1	5/23/2012 9:27:47 PM
Surr: 2-Fluorophenol	73.2	20.2-108	%REC	1	5/23/2012 9:27:47 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

1205815-003

Lab ID:

**Received Date:** 5/17/2012 4:20:00 PM

CLIENT: Intera, Inc. **Client Sample ID:** MW-08 (14'-19')

**Project:** Enersource **Collection Date:** 5/12/2012 1:45:00 PM Matrix: MEOH (SOIL)

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILE	S				Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	73.6	18.9-115	%REC	1	5/23/2012 9:27:47 PM
Surr: Nitrobenzene-d5	66.5	20.8-123	%REC	1	5/23/2012 9:27:47 PM
Surr: Phenol-d5	76.9	19.8-115	%REC	1	5/23/2012 9:27:47 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Toluene	ND	1.0		20	5/18/2012 11:59:15 PM
Ethylbenzene	ND	1.0		20	5/18/2012 11:59:15 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		20	5/18/2012 11:59:15 PM
1,2,4-Trimethylbenzene	3.0	1.0		20	5/18/2012 11:59:15 PM
1,3,5-Trimethylbenzene	1.2	1.0		20	5/18/2012 11:59:15 PM
1,2-Dichloroethane (EDC)	ND	1.0		20	5/18/2012 11:59:15 PM
1,2-Dibromoethane (EDB)	ND	1.0		20	5/18/2012 11:59:15 PM
Naphthalene	ND	2.0		20	5/18/2012 11:59:15 PM
1-Methylnaphthalene	ND	4.0		20	5/18/2012 11:59:15 PM
2-Methylnaphthalene	ND	4.0		20	5/18/2012 11:59:15 PM
Acetone	ND	15		20	5/18/2012 11:59:15 PM
Bromobenzene	ND	1.0		20	5/18/2012 11:59:15 PM
Bromodichloromethane	ND	1.0		20	5/18/2012 11:59:15 PM
Bromoform	ND	1.0		20	5/18/2012 11:59:15 PM
Bromomethane	ND	3.0		20	5/18/2012 11:59:15 PM
2-Butanone	ND	10		20	5/18/2012 11:59:15 PM
Carbon disulfide	ND	10	mg/Kg	20	5/18/2012 11:59:15 PM
Carbon tetrachloride	ND	2.0		20	5/18/2012 11:59:15 PM
Chlorobenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Chloroethane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
Chloroform	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Chloromethane	ND	3.0	mg/Kg	20	5/18/2012 11:59:15 PM
2-Chlorotoluene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
4-Chlorotoluene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
cis-1,2-DCE	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
cis-1,3-Dichloropropene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2-Dibromo-3-chloropropane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
Dibromochloromethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Dibromomethane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2-Dichlorobenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,3-Dichlorobenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,4-Dichlorobenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Dichlorodifluoromethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1-Dichloroethane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1-Dichloroethene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2-Dichloropropane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM

Value exceeds Maximum Contaminant Level. \*/X

Ε Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-08 (14'-19')

**Project:** Enersource Collection Date: 5/12/2012 1:45:00 PM

**Lab ID:** 1205815-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
2,2-Dichloropropane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1-Dichloropropene	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
Hexachlorobutadiene	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
2-Hexanone	ND	10	mg/Kg	20	5/18/2012 11:59:15 PM
Isopropylbenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
4-Isopropyltoluene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
4-Methyl-2-pentanone	ND	10	mg/Kg	20	5/18/2012 11:59:15 PM
Methylene chloride	ND	3.0	mg/Kg	20	5/18/2012 11:59:15 PM
n-Butylbenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
n-Propylbenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
sec-Butylbenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Styrene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
tert-Butylbenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1,1,2-Tetrachloroethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1,2,2-Tetrachloroethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Tetrachloroethene (PCE)	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
trans-1,2-DCE	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
trans-1,3-Dichloropropene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2,3-Trichlorobenzene	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2,4-Trichlorobenzene	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1,1-Trichloroethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,1,2-Trichloroethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Trichloroethene (TCE)	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Trichlorofluoromethane	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
1,2,3-Trichloropropane	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
Vinyl chloride	ND	1.0	mg/Kg	20	5/18/2012 11:59:15 PM
Xylenes, Total	ND	2.0	mg/Kg	20	5/18/2012 11:59:15 PM
Surr: 1,2-Dichloroethane-d4	82.8	70-130	%REC	20	5/18/2012 11:59:15 PM
Surr: 4-Bromofluorobenzene	79.6	70-130	%REC	20	5/18/2012 11:59:15 PM
Surr: Dibromofluoromethane	77.9	71.7-132	%REC	20	5/18/2012 11:59:15 PM
Surr: Toluene-d8	87.7	70-130	%REC	20	5/18/2012 11:59:15 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-09 (19'-23')

 Project:
 Enersource
 Collection Date: 5/13/2012 5:50:00 PM

 Lab ID:
 1205815-004
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	630	10		mg/Kg	1	5/22/2012 2:02:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/22/2012 2:02:54 PM
Surr: DNOP	86.8	82.1-121		%REC	1	5/22/2012 2:02:54 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	490	100		mg/Kg	20	5/23/2012 12:46:17 PM
Surr: BFB	251	69.7-121	S	%REC	20	5/23/2012 12:46:17 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	260	30		mg/Kg	20	5/21/2012 5:42:21 PM
EPA METHOD 8270C: SEMIVOLATION	LES					Analyst: <b>JDC</b>
Acenaphthene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Acenaphthylene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Aniline	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Azobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Benzoic acid	ND	0.50		mg/Kg	1	5/23/2012 9:57:25 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	5/23/2012 9:57:25 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Carbazole	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	5/23/2012 9:57:25 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	5/23/2012 9:57:25 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	5/23/2012 9:57:25 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Chrysene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	5/23/2012 9:57:25 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	5/23/2012 9:57:25 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
Dibenzofuran	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 9:57:25 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc.

**Client Sample ID:** MW-09 (19'-23')

**Project:** Enersource Collection Date: 5/13/2012 5:50:00 PM

**Lab ID:** 1205815-004 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLAT	ΓILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
3,3´-Dichlorobenzidine	ND	0.25	mg/Kg	1	5/23/2012 9:57:25 PM
Diethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Dimethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2,4-Dichlorophenol	ND	0.40	mg/Kg	1	5/23/2012 9:57:25 PM
2,4-Dimethylphenol	ND	0.30	mg/Kg	1	5/23/2012 9:57:25 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
2,4-Dinitrophenol	ND	0.40	mg/Kg	1	5/23/2012 9:57:25 PM
2,4-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
2,6-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
Fluoranthene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Fluorene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Hexachlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Hexachlorobutadiene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Hexachlorocyclopentadiene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Hexachloroethane	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Isophorone	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
1-Methylnaphthalene	2.4	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2-Methylnaphthalene	3.1	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2-Methylphenol	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
3+4-Methylphenol	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Naphthalene	0.98	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
3-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
4-Nitroaniline	ND	0.40	mg/Kg	1	5/23/2012 9:57:25 PM
Nitrobenzene	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
2-Nitrophenol	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
4-Nitrophenol	ND	0.25	mg/Kg	1	5/23/2012 9:57:25 PM
Pentachlorophenol	ND	0.40	mg/Kg	1	5/23/2012 9:57:25 PM
Phenanthrene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Phenol	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Pyrene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Pyridine	ND	0.50	mg/Kg	1	5/23/2012 9:57:25 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 9:57:25 PM
Surr: 2,4,6-Tribromophenol	77.9	20.1-121	%REC	1	5/23/2012 9:57:25 PM
Surr: 2-Fluorobiphenyl	73.7	19-133	%REC	1	5/23/2012 9:57:25 PM
Surr: 2-Fluorophenol	80.9	20.2-108	%REC	1	5/23/2012 9:57:25 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-09 (19'-23')

 Project:
 Enersource
 Collection Date: 5/13/2012 5:50:00 PM

 Lab ID:
 1205815-004
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILE	S				Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	79.5	18.9-115	%REC	1	5/23/2012 9:57:25 PM
Surr: Nitrobenzene-d5	0	20.8-123	S %REC	1	5/23/2012 9:57:25 PM
Surr: Phenol-d5	86.1	19.8-115	%REC	1	5/23/2012 9:57:25 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Toluene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Ethylbenzene	4.8	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Methyl tert-butyl ether (MTBE)	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2,4-Trimethylbenzene	13	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,3,5-Trimethylbenzene	4.5	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2-Dichloroethane (EDC)	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2-Dibromoethane (EDB)	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Naphthalene	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
1-Methylnaphthalene	ND	10	mg/Kg	50	5/19/2012 12:55:28 AM
2-Methylnaphthalene	ND	10	mg/Kg	50	5/19/2012 12:55:28 AM
Acetone	ND	38	mg/Kg	50	5/19/2012 12:55:28 AM
Bromobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Bromodichloromethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Bromoform	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Bromomethane	ND	7.5	mg/Kg	50	5/19/2012 12:55:28 AM
2-Butanone	ND	25	mg/Kg	50	5/19/2012 12:55:28 AM
Carbon disulfide	ND	25	mg/Kg	50	5/19/2012 12:55:28 AM
Carbon tetrachloride	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Chlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Chloroethane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Chloroform	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Chloromethane	ND	7.5	mg/Kg	50	5/19/2012 12:55:28 AM
2-Chlorotoluene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
4-Chlorotoluene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
cis-1,2-DCE	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
cis-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2-Dibromo-3-chloropropane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Dibromochloromethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Dibromomethane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
1,2-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,3-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,4-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Dichlorodifluoromethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,1-Dichloroethane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
1,1-Dichloroethene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2-Dichloropropane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-09 (19'-23')

**Project:** Enersource Collection Date: 5/13/2012 5:50:00 PM

**Lab ID:** 1205815-004 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
2,2-Dichloropropane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
1,1-Dichloropropene	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Hexachlorobutadiene	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
2-Hexanone	ND	25	mg/Kg	50	5/19/2012 12:55:28 AM
Isopropylbenzene	2.5	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
4-Isopropyltoluene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
4-Methyl-2-pentanone	ND	25	mg/Kg	50	5/19/2012 12:55:28 AM
Methylene chloride	ND	7.5	mg/Kg	50	5/19/2012 12:55:28 AM
n-Butylbenzene	4.2	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
n-Propylbenzene	4.3	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
sec-Butylbenzene	2.7	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Styrene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
tert-Butylbenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,1,1,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,1,2,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Tetrachloroethene (PCE)	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
trans-1,2-DCE	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
trans-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2,3-Trichlorobenzene	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
1,2,4-Trichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,1,1-Trichloroethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,1,2-Trichloroethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Trichloroethene (TCE)	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Trichlorofluoromethane	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
1,2,3-Trichloropropane	ND	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Vinyl chloride	ND	2.5	mg/Kg	50	5/19/2012 12:55:28 AM
Xylenes, Total	12	5.0	mg/Kg	50	5/19/2012 12:55:28 AM
Surr: 1,2-Dichloroethane-d4	80.7	70-130	%REC	50	5/19/2012 12:55:28 AM
Surr: 4-Bromofluorobenzene	79.0	70-130	%REC	50	5/19/2012 12:55:28 AM
Surr: Dibromofluoromethane	78.3	71.7-132	%REC	50	5/19/2012 12:55:28 AM
Surr: Toluene-d8	87.3	70-130	%REC	50	5/19/2012 12:55:28 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-10 (24'-29')

 Project:
 Enersource
 Collection Date: 5/15/2012 3:40:00 PM

 Lab ID:
 1205815-005
 Matrix: MEOH (SOIL)
 Received Date: 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	780	99		mg/Kg	10	5/22/2012 4:17:42 PM
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	5/22/2012 4:17:42 PM
Surr: DNOP	0	82.1-121	S	%REC	10	5/22/2012 4:17:42 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	520	100		mg/Kg	20	5/23/2012 1:15:00 PM
Surr: BFB	342	69.7-121	S	%REC	20	5/23/2012 1:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	5/21/2012 5:54:46 PM
EPA METHOD 8270C: SEMIVOLATI	LES					Analyst: <b>JDC</b>
Acenaphthene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Acenaphthylene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Aniline	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Azobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Benzoic acid	ND	0.50		mg/Kg	1	5/23/2012 10:27:05 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	5/23/2012 10:27:05 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Carbazole	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	5/23/2012 10:27:05 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	5/23/2012 10:27:05 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	5/23/2012 10:27:05 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Chrysene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	5/23/2012 10:27:05 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	5/23/2012 10:27:05 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
Dibenzofuran	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:27:05 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

**Received Date:** 5/17/2012 4:20:00 PM

#### Lab Order 1205815

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/24/2012

CLIENT: Intera, Inc. **Client Sample ID:** MW-10 (24'-29')

1205815-005

Lab ID:

**Project:** Enersource **Collection Date:** 5/15/2012 3:40:00 PM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLAT	TILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
3,3'-Dichlorobenzidine	ND	0.25	mg/Kg	1	5/23/2012 10:27:05 PM
Diethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Dimethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
2,4-Dichlorophenol	ND	0.40	mg/Kg	1	5/23/2012 10:27:05 PM
2,4-Dimethylphenol	ND	0.30	mg/Kg	1	5/23/2012 10:27:05 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
2,4-Dinitrophenol	ND	0.40	mg/Kg	1	5/23/2012 10:27:05 PM
2,4-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
2,6-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
Fluoranthene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Fluorene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Hexachlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Hexachlorobutadiene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Hexachlorocyclopentadiene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Hexachloroethane	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Isophorone	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
1-Methylnaphthalene	3.5	0.40	mg/Kg	2	5/24/2012 1:18:09 PM
2-Methylnaphthalene	4.3	0.40	mg/Kg	2	5/24/2012 1:18:09 PM
2-Methylphenol	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
3+4-Methylphenol	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Naphthalene	1.1	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
2-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
3-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
4-Nitroaniline	ND	0.40	mg/Kg	1	5/23/2012 10:27:05 PM
Nitrobenzene	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
2-Nitrophenol	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
4-Nitrophenol	ND	0.25	mg/Kg	1	5/23/2012 10:27:05 PM
Pentachlorophenol	ND	0.40	mg/Kg	1	5/23/2012 10:27:05 PM
Phenanthrene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Phenol	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Pyrene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Pyridine	ND	0.50	mg/Kg	1	5/23/2012 10:27:05 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 10:27:05 PM
Surr: 2,4,6-Tribromophenol	68.1	20.1-121	%REC	1	5/23/2012 10:27:05 PM
Surr: 2-Fluorobiphenyl	63.3	19-133	%REC	1	5/23/2012 10:27:05 PM
Surr: 2-Fluorophenol	63.1	20.2-108	%REC	1	5/23/2012 10:27:05 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-10 (24'-29')

**Project:** Enersource Collection Date: 5/15/2012 3:40:00 PM

**Lab ID:** 1205815-005 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8270C: SEMIVOLATILES</b>						Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	70.9	18.9-115		%REC	1	5/23/2012 10:27:05 PM
Surr: Nitrobenzene-d5	0	20.8-123	S	%REC	1	5/23/2012 10:27:05 PM
Surr: Phenol-d5	70.3	19.8-115		%REC	1	5/23/2012 10:27:05 PM
<b>EPA METHOD 8260B: VOLATILES</b>						Analyst: RAA
Benzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Toluene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Ethylbenzene	10	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Methyl tert-butyl ether (MTBE)	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,2,4-Trimethylbenzene	15	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,3,5-Trimethylbenzene	5.6	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,2-Dichloroethane (EDC)	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,2-Dibromoethane (EDB)	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Naphthalene	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
1-Methylnaphthalene	ND	10		mg/Kg	50	5/19/2012 1:51:59 AM
2-Methylnaphthalene	ND	10		mg/Kg	50	5/19/2012 1:51:59 AM
Acetone	ND	38		mg/Kg	50	5/19/2012 1:51:59 AM
Bromobenzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Bromodichloromethane	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Bromoform	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Bromomethane	ND	7.5		mg/Kg	50	5/19/2012 1:51:59 AM
2-Butanone	ND	25		mg/Kg	50	5/19/2012 1:51:59 AM
Carbon disulfide	ND	25		mg/Kg	50	5/19/2012 1:51:59 AM
Carbon tetrachloride	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
Chlorobenzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Chloroethane	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
Chloroform	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Chloromethane	ND	7.5		mg/Kg	50	5/19/2012 1:51:59 AM
2-Chlorotoluene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
4-Chlorotoluene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
cis-1,2-DCE	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
cis-1,3-Dichloropropene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,2-Dibromo-3-chloropropane	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
Dibromochloromethane	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Dibromomethane	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
1,2-Dichlorobenzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,3-Dichlorobenzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,4-Dichlorobenzene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
Dichlorodifluoromethane	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,1-Dichloroethane	ND	5.0		mg/Kg	50	5/19/2012 1:51:59 AM
1,1-Dichloroethene	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM
1,2-Dichloropropane	ND	2.5		mg/Kg	50	5/19/2012 1:51:59 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

**Received Date:** 5/17/2012 4:20:00 PM

Date Reported: 5/24/2012

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. **Client Sample ID:** MW-10 (24'-29')

**Project:** Enersource Collection Date: 5/15/2012 3:40:00 PM Matrix: MEOH (SOIL)

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8260B: VOLATILES** Analyst: RAA ND 1,3-Dichloropropane 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 2,2-Dichloropropane 5.0 mg/Kg 50 5/19/2012 1:51:59 AM ND 5.0 mg/Kg 50 1,1-Dichloropropene 5/19/2012 1:51:59 AM Hexachlorobutadiene ND 5.0 mg/Kg 50 5/19/2012 1:51:59 AM ND 25 2-Hexanone mg/Kg 50 5/19/2012 1:51:59 AM Isopropylbenzene 4.6 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 2.5 mg/Kg 4-Isopropyltoluene 50 5/19/2012 1:51:59 AM ND 4-Methyl-2-pentanone 25 mg/Kg 50 5/19/2012 1:51:59 AM Methylene chloride ND 7.5 mg/Kg 50 5/19/2012 1:51:59 AM n-Butylbenzene ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM n-Propylbenzene 6.0 2.5 mg/Kg 50 5/19/2012 1:51:59 AM sec-Butylbenzene 2.9 2.5 mg/Kg 50 5/19/2012 1:51:59 AM Styrene ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM tert-Butylbenzene ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM 1,1,1,2-Tetrachloroethane ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 2.5 1,1,2,2-Tetrachloroethane mg/Kg 50 5/19/2012 1:51:59 AM Tetrachloroethene (PCE) ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 2.5 trans-1,2-DCE mg/Kg 50 5/19/2012 1:51:59 AM trans-1,3-Dichloropropene ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 5.0 mg/Kg 50 5/19/2012 1:51:59 AM 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM 1,1,1-Trichloroethane ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM 1,1,2-Trichloroethane ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM Trichloroethene (TCE) ND 2.5 mg/Kg 50 5/19/2012 1:51:59 AM ND 2.5 Trichlorofluoromethane mg/Kg 50 5/19/2012 1:51:59 AM 1,2,3-Trichloropropane ND 5.0 mg/Kg 50 5/19/2012 1:51:59 AM Vinyl chloride ND 2.5 50 5/19/2012 1:51:59 AM mg/Kg Xylenes, Total 25 5.0 mg/Kg 50 5/19/2012 1:51:59 AM Surr: 1,2-Dichloroethane-d4 77.7 70-130 %REC 50 5/19/2012 1:51:59 AM Surr: 4-Bromofluorobenzene 81.1 70-130 %REC 50 5/19/2012 1:51:59 AM Surr: Dibromofluoromethane 78.3 71.7-132 %REC 50 5/19/2012 1:51:59 AM Surr: Toluene-d8 88.9 70-130 %REC 50 5/19/2012 1:51:59 AM

Qualifiers:

Lab ID:

1205815-005

Spike Recovery outside accepted recovery limits

<sup>\*/</sup>XValue exceeds Maximum Contaminant Level.

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Е Value above quantitation range

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RLReporting Detection Limit

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-12 (29'-33')

**Project:** Enersource Collection Date: 5/16/2012 4:00:00 PM

**Lab ID:** 1205815-006 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	1,500	99		mg/Kg	10	5/22/2012 4:39:35 PM
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	5/22/2012 4:39:35 PM
Surr: DNOP	0	82.1-121	S	%REC	10	5/22/2012 4:39:35 PM
EPA METHOD 8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	310	100		mg/Kg	20	5/23/2012 1:43:51 PM
Surr: BFB	165	69.7-121	S	%REC	20	5/23/2012 1:43:51 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	230	7.5		mg/Kg	5	5/21/2012 6:44:24 PM
EPA METHOD 8270C: SEMIVOLATILE	S					Analyst: JDC
Acenaphthene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Acenaphthylene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Aniline	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Azobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benz(a)anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benzo(a)pyrene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Benzoic acid	ND	0.50		mg/Kg	1	5/23/2012 10:56:39 PM
Benzyl alcohol	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Bis(2-ethylhexyl)phthalate	ND	0.50		mg/Kg	1	5/23/2012 10:56:39 PM
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Carbazole	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
4-Chloro-3-methylphenol	ND	0.50		mg/Kg	1	5/23/2012 10:56:39 PM
4-Chloroaniline	ND	0.50		mg/Kg	1	5/23/2012 10:56:39 PM
2-Chloronaphthalene	ND	0.25		mg/Kg	1	5/23/2012 10:56:39 PM
2-Chlorophenol	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Chrysene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Di-n-butyl phthalate	ND	0.50		mg/Kg	1	5/23/2012 10:56:39 PM
Di-n-octyl phthalate	ND	0.25		mg/Kg	1	5/23/2012 10:56:39 PM
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
Dibenzofuran	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	5/23/2012 10:56:39 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

CLIENT: Intera, Inc.

Client Sample ID: MW-12 (29'-33')

**Project:** Enersource Collection Date: 5/16/2012 4:00:00 PM

**Lab ID:** 1205815-006 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLAT	ΓILES				Analyst: <b>JDC</b>
1,4-Dichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
3,3'-Dichlorobenzidine	ND	0.25	mg/Kg	1	5/23/2012 10:56:39 PM
Diethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Dimethyl phthalate	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
2,4-Dichlorophenol	ND	0.40	mg/Kg	1	5/23/2012 10:56:39 PM
2,4-Dimethylphenol	ND	0.30	mg/Kg	1	5/23/2012 10:56:39 PM
4,6-Dinitro-2-methylphenol	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
2,4-Dinitrophenol	ND	0.40	mg/Kg	1	5/23/2012 10:56:39 PM
2,4-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
2,6-Dinitrotoluene	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
Fluoranthene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Fluorene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Hexachlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Hexachlorobutadiene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Hexachlorocyclopentadiene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Hexachloroethane	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Isophorone	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
1-Methylnaphthalene	7.2	1.0	mg/Kg	5	5/24/2012 1:47:21 PM
2-Methylnaphthalene	9.1	1.0	mg/Kg	5	5/24/2012 1:47:21 PM
2-Methylphenol	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
3+4-Methylphenol	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
N-Nitrosodi-n-propylamine	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Naphthalene	2.0	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
2-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
3-Nitroaniline	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
4-Nitroaniline	ND	0.40	mg/Kg	1	5/23/2012 10:56:39 PM
Nitrobenzene	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
2-Nitrophenol	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
4-Nitrophenol	ND	0.25	mg/Kg	1	5/23/2012 10:56:39 PM
Pentachlorophenol	ND	0.40	mg/Kg	1	5/23/2012 10:56:39 PM
Phenanthrene	0.30	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Phenol	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Pyrene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Pyridine	ND	0.50	mg/Kg	1	5/23/2012 10:56:39 PM
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	1	5/23/2012 10:56:39 PM
Surr: 2,4,6-Tribromophenol	57.0	20.1-121	%REC	1	5/23/2012 10:56:39 PM
Surr: 2-Fluorobiphenyl	63.0	19-133	%REC	1	5/23/2012 10:56:39 PM
Surr: 2-Fluorophenol	58.4	20.2-108	%REC	1	5/23/2012 10:56:39 PM

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

**Received Date:** 5/17/2012 4:20:00 PM

# Lab Order **1205815**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/24/2012

CLIENT: Intera, Inc. **Client Sample ID:** MW-12 (29'-33')

1205815-006

Lab ID:

**Project:** Enersource **Collection Date:** 5/16/2012 4:00:00 PM Matrix: MEOH (SOIL)

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILE	ES				Analyst: <b>JDC</b>
Surr: 4-Terphenyl-d14	87.0	18.9-115	%REC	1	5/23/2012 10:56:39 PM
Surr: Nitrobenzene-d5	0	20.8-123	S %REC	1	5/23/2012 10:56:39 PM
Surr: Phenol-d5	79.7	19.8-115	%REC	1	5/23/2012 10:56:39 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Toluene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Ethylbenzene	5.8	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Methyl tert-butyl ether (MTBE)	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2,4-Trimethylbenzene	12	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,3,5-Trimethylbenzene	4.0	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2-Dichloroethane (EDC)	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2-Dibromoethane (EDB)	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Naphthalene	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
1-Methylnaphthalene	ND	10	mg/Kg	50	5/19/2012 2:48:04 AM
2-Methylnaphthalene	ND	10	mg/Kg	50	5/19/2012 2:48:04 AM
Acetone	ND	38	mg/Kg	50	5/19/2012 2:48:04 AM
Bromobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Bromodichloromethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Bromoform	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Bromomethane	ND	7.5	mg/Kg	50	5/19/2012 2:48:04 AM
2-Butanone	ND	25	mg/Kg	50	5/19/2012 2:48:04 AM
Carbon disulfide	ND	25	mg/Kg	50	5/19/2012 2:48:04 AM
Carbon tetrachloride	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Chlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Chloroethane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Chloroform	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Chloromethane	ND	7.5	mg/Kg	50	5/19/2012 2:48:04 AM
2-Chlorotoluene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
4-Chlorotoluene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
cis-1,2-DCE	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
cis-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2-Dibromo-3-chloropropane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Dibromochloromethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Dibromomethane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
1,2-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,3-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,4-Dichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Dichlorodifluoromethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,1-Dichloroethane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
1,1-Dichloroethene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2-Dichloropropane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Date Reported: 5/24/2012

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-12 (29'-33')

**Project:** Enersource Collection Date: 5/16/2012 4:00:00 PM

**Lab ID:** 1205815-006 **Matrix:** MEOH (SOIL) **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
2,2-Dichloropropane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
1,1-Dichloropropene	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Hexachlorobutadiene	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
2-Hexanone	ND	25	mg/Kg	50	5/19/2012 2:48:04 AM
Isopropylbenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
4-Isopropyltoluene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
4-Methyl-2-pentanone	ND	25	mg/Kg	50	5/19/2012 2:48:04 AM
Methylene chloride	ND	7.5	mg/Kg	50	5/19/2012 2:48:04 AM
n-Butylbenzene	2.5	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
n-Propylbenzene	3.6	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
sec-Butylbenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Styrene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
tert-Butylbenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,1,1,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,1,2,2-Tetrachloroethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Tetrachloroethene (PCE)	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
trans-1,2-DCE	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
trans-1,3-Dichloropropene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2,3-Trichlorobenzene	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
1,2,4-Trichlorobenzene	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,1,1-Trichloroethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,1,2-Trichloroethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Trichloroethene (TCE)	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Trichlorofluoromethane	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
1,2,3-Trichloropropane	ND	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Vinyl chloride	ND	2.5	mg/Kg	50	5/19/2012 2:48:04 AM
Xylenes, Total	20	5.0	mg/Kg	50	5/19/2012 2:48:04 AM
Surr: 1,2-Dichloroethane-d4	83.7	70-130	%REC	50	5/19/2012 2:48:04 AM
Surr: 4-Bromofluorobenzene	77.7	70-130	%REC	50	5/19/2012 2:48:04 AM
Surr: Dibromofluoromethane	81.9	71.7-132	%REC	50	5/19/2012 2:48:04 AM
Surr: Toluene-d8	86.1	70-130	%REC	50	5/19/2012 2:48:04 AM

Qualifiers:

Spike Recovery outside accepted recovery limits

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/24/2012

CLIENT: Intera, Inc.

Client Sample ID: MEOH BLANK

**Project:** Enersource Collection Date:

**Lab ID:** 1205815-007 **Matrix:** MEOH BLAN **Received Date:** 5/17/2012 4:20:00 PM

Analyses	Result	RL	<b>Qual Units</b>	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/23/2012 2:41:30 PM
Surr: BFB	92.1	69.7-121	%REC	1	5/23/2012 2:41:30 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Toluene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2-Dichloroethane (EDC)	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Naphthalene	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
1-Methylnaphthalene	ND	0.20	mg/Kg	1	5/19/2012 3:44:06 AM
2-Methylnaphthalene	ND	0.20	mg/Kg	1	5/19/2012 3:44:06 AM
Acetone	ND	0.75	mg/Kg	1	5/19/2012 3:44:06 AM
Bromobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Bromodichloromethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Bromoform	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Bromomethane	ND	0.15	mg/Kg	1	5/19/2012 3:44:06 AM
2-Butanone	ND	0.50	mg/Kg	1	5/19/2012 3:44:06 AM
Carbon disulfide	ND	0.50	mg/Kg	1	5/19/2012 3:44:06 AM
Carbon tetrachloride	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Chlorobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Chloroethane	ND ND	0.030		1	5/19/2012 3:44:06 AM
Chloroform	ND ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Chloromethane	ND ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
	ND ND		mg/Kg	1	5/19/2012 3:44:06 AM
2-Chlorotoluene		0.050	mg/Kg		5/19/2012 3:44:06 AM
4-Chlorotoluene	ND	0.050	mg/Kg	1	
cis-1,2-DCE	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
cis-1,3-Dichloropropene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2-Dibromo-3-chloropropane	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Dibromochloromethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Dibromomethane	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
1,2-Dichlorobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,3-Dichlorobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,4-Dichlorobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Dichlorodifluoromethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,1-Dichloroethane	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
1,1-Dichloroethene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2-Dichloropropane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,3-Dichloropropane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 5/24/2012

**CLIENT:** Intera, Inc. **Client Sample ID: MEOH BLANK** 

**Project:** Enersource **Collection Date:** 

1205815-007 Matrix: MEOH BLAN **Received Date:** 5/17/2012 4:20:00 PM Lab ID:

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES				_	Analyst: RAA
2,2-Dichloropropane	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
1,1-Dichloropropene	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Hexachlorobutadiene	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
2-Hexanone	ND	0.50	mg/Kg	1	5/19/2012 3:44:06 AM
Isopropylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
4-Isopropyltoluene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
4-Methyl-2-pentanone	ND	0.50	mg/Kg	1	5/19/2012 3:44:06 AM
Methylene chloride	ND	0.15	mg/Kg	1	5/19/2012 3:44:06 AM
n-Butylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
n-Propylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
sec-Butylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Styrene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
tert-Butylbenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Tetrachloroethene (PCE)	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
trans-1,2-DCE	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
trans-1,3-Dichloropropene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,1,1-Trichloroethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,1,2-Trichloroethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Trichloroethene (TCE)	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Trichlorofluoromethane	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
1,2,3-Trichloropropane	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Vinyl chloride	ND	0.050	mg/Kg	1	5/19/2012 3:44:06 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/19/2012 3:44:06 AM
Surr: 1,2-Dichloroethane-d4	80.2	70-130	%REC	1	5/19/2012 3:44:06 AM
Surr: 4-Bromofluorobenzene	90.2	70-130	%REC	1	5/19/2012 3:44:06 AM
Surr: Dibromofluoromethane	76.2	71.7-132	%REC	1	5/19/2012 3:44:06 AM
Surr: Toluene-d8	87.2	70-130	%REC	1	5/19/2012 3:44:06 AM

Qualifiers:

Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit RL

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2028 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 2028 RunNo: 2936

Prep Date: 5/21/2012 Analysis Date: 5/21/2012 SeqNo: 81491 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-2028 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 2028 RunNo: 2936

Prep Date: 5/21/2012 Analysis Date: 5/21/2012 SeqNo: 81492 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.3 90 110

Sample ID 1205804-001AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 2028 RunNo: 2936

Prep Date: 5/21/2012 Analysis Date: 5/21/2012 SeqNo: 81494 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 7.5 15.00 1.995 84.6 74.6 118

Sample ID 1205804-001AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 2028 RunNo: 2936

Prep Date: 5/21/2012 Analysis Date: 5/21/2012 SeqNo: 81495 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 7.5 15.00 1.995 85.3 74.6 118 0.672 20

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2024	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: PBS	Batch	ID: <b>20</b>	24	F	RunNo: 2	934				
Prep Date: 5/21/2012	Analysis D	ate: <b>5/</b>	22/2012	8	SeqNo: 8	1538	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.6	82.1	121			

Sample ID LCS-2024	SampT	ype: <b>LC</b>	s	TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch	1D: <b>20</b>	24	R	934						
Prep Date: 5/21/2012	Analysis Date: 5/22/2012			SeqNo: <b>81539</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	37	10	50.00	0	74.3	52.6	130				
Surr: DNOP	4.9		5.000		97.3	82.1	121				

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client:	Intera, Inc.
Project:	Enersource

Sample ID MB-2045	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: PBS	Batcl	n ID: <b>20</b> 4	45	F	RunNo: 3	004				
Prep Date: 5/21/2012	Analysis D	oate: 5/	24/2012	9	SeqNo: 8	3270	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1,000		91.7	69.7	121			
Sample ID LCS-2045	SampT	ype: LC	:S	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	

Client ID: LCSS	Batch	i ID: <b>20</b>	45	R	tunNo: 3	004		_		
Prep Date: 5/21/2012	Analysis D	ate: <b>5/</b>	24/2012	S	SeqNo: 8	3271	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	98.5	133			
Surr: BFB	970		1.000		97.0	69.7	121			

Sample ID	1205837-001AMS	SampT	уре: <b>М</b> \$	3	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID:	BatchQC	Batch	ID: <b>20</b>	45	R	RunNo: 3	004				
Prep Date:	5/21/2012	Analysis D	ate: <b>5/</b>	23/2012	S	SeqNo: 8	3287	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	31	4.7	23.41	1.982	125	85.4	147			
Surr: BFB		930		936.3		99.3	69.7	121			

Sample ID	1205837-001AMSD	SampTy	pe: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е		
Client ID:	BatchQC	Batch	ID: <b>20</b>	45	R	RunNo: 3	004					
Prep Date:	5/21/2012	Analysis Da	te: <b>5</b> /	/23/2012	S	SeqNo: 8	3288	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	30	4.9	24.32	1.982	117	85.4	147	2.26	19.2		
Surr: BFB		960		972.8		98.5	69.7	121	0	0		

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES PBS Client ID: Batch ID: R2899 RunNo: 2899 Prep Date: Analysis Date: 5/18/2012 SeqNo: 80419 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 ND 0.050 Toluene ND Ethylbenzene 0.050 Methyl tert-butyl ether (MTBE) ND 0.050 1,2,4-Trimethylbenzene ND 0.050 1,3,5-Trimethylbenzene ND 0.050 1,2-Dichloroethane (EDC) ND 0.050 1,2-Dibromoethane (EDB) ND 0.050 Naphthalene ND 0.10 ND 0.20 1-Methylnaphthalene 2-Methylnaphthalene ND 0.20 ND 0.75 Acetone ND 0.050 Bromobenzene Bromodichloromethane ND 0.050 Bromoform ND 0.050 Bromomethane ND 0.15 2-Butanone ND 0.50 Carbon disulfide ND 0.50 Carbon tetrachloride ND 0.10 Chlorobenzene ND 0.050 Chloroethane ND 0.10 Chloroform ND 0.050 Chloromethane ND 0.15 2-Chlorotoluene ND 0.050 4-Chlorotoluene ND 0.050 cis-1,2-DCE ND 0.050 cis-1,3-Dichloropropene ND 0.050 1,2-Dibromo-3-chloropropane ND 0.10 Dibromochloromethane ND 0.050 ND 0.10 Dibromomethane ND 0.050 1.2-Dichlorobenzene 1,3-Dichlorobenzene ND 0.050 1.4-Dichlorobenzene ND 0.050 Dichlorodifluoromethane ND 0.050 1,1-Dichloroethane ND 0.10 1,1-Dichloroethene ND 0.050 ND 0.050 1,2-Dichloropropane 1,3-Dichloropropane ND 0.050 2,2-Dichloropropane ND 0.10 ND 0.10 1,1-Dichloropropene ND 0.10 Hexachlorobutadiene

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815 24-May-12** 

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBS	Batcl	n ID: <b>R2</b>	899	R	tunNo: 2	899				
Prep Date:	Analysis D	Date: <b>5/</b>	18/2012	S	eqNo: 8	0419	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.050								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130			
Surr: Dibromofluoromethane	0.38		0.5000		76.1	71.7	132			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			

Sample ID 100ng Ics	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSS	Batcl	n ID: <b>R2</b>	899	F	RunNo: 2	899				
Prep Date:	Analysis D	Date: <b>5/</b>	18/2012	8	SeqNo: 8	0420	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	70.7	123			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Chlorobenzene	0.98	0.050	1.000	0	98.1	70	130			
1,1-Dichloroethene	0.86	0.050	1.000	0	86.4	63.1	148			
Trichloroethene (TCE)	0.88	0.050	1.000	0	88.0	63.2	114			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		81.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.2	70	130			

#### Qualifiers:

RL Reporting Detection Limit

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<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1205815

24-May-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID 100ng lcs SampType: LCS TestCode: EPA Method 8260B: VOLATILES

Client ID: LCSS Batch ID: R2899 RunNo: 2899

Prep Date: Analysis Date: 5/18/2012 SeqNo: 80420 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Dibromofluoromethane 0.38 0.5000 75.1 71.7 132 Surr: Toluene-d8 0.44 0.5000 88.5 70 130

Sample ID 1205815-001a ms SampType: MS TestCode: EPA Method 8260B: VOLATILES

25.00

MW-07 (14'-19') Batch ID: R2899 RunNo: 2899

Prep Date:	Analysis D	)ate: <b>5/</b>	18/2012	S	SeqNo: 80	0421	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	48	2.5	50.00	0	95.8	81.3	119	<u> </u>		
Toluene	48	2.5	50.00	0	96.2	75	121			
Chlorobenzene	50	2.5	50.00	0.2369	99.8	78.5	120			
1,1-Dichloroethene	45	2.5	50.00	0	90.4	75.3	115			
Trichloroethene (TCE)	44	2.5	50.00	0	88.3	67.8	119			
Surr: 1,2-Dichloroethane-d4	21		25.00		84.5	70	130			
Surr: 4-Bromofluorobenzene	20		25.00		81.3	70	130			
Surr: Dibromofluoromethane	21		25.00		83.1	71.7	132			
Surr: Toluene-d8	22		25.00		87.2	70	130			

TestCode: EPA Method 8260B: VOLATILES Sample ID 1205815-001a msd SampType: MSD Client ID: MW-07 (14'-19') Batch ID: R2899 RunNo: 2899 Prep Date: Analysis Date: 5/18/2012 SeqNo: 80422 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 45 2.5 50.00 0 90.1 81.3 119 6.16 15.7 47 50.00 93.5 75 2.82 16.2 Toluene 2.5 0 121 48 2.5 50.00 0.2369 96.1 78.5 120 3.74 Chlorobenzene 14.9 1,1-Dichloroethene 43 2.5 50.00 86.7 75.3 4.19 0 115 31.8 Trichloroethene (TCE) 42 2.5 50.00 0 83.0 67.8 119 6.11 16.5 21 25.00 82.7 Surr: 1,2-Dichloroethane-d4 70 130 0 0 Surr: 4-Bromofluorobenzene 21 25.00 83.4 70 130 0 0 Surr: Dibromofluoromethane 21 25.00 82.2 71.7 132 0 0

#### Qualifiers:

Surr: Toluene-d8

22

88.5

70

130

0

0

Value exceeds Maximum Contaminant Level. \*/X

Value above quantitation range

T Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID mb-2036

**PBS** Client ID: Batch ID: 2036 RunNo: 2994 Analysis Date: 5/23/2012 Prep Date: 5/21/2012 SeqNo: 83109 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Acenaphthene ND 0.20 ND Acenaphthylene 0.20 ND 0.20 Aniline Anthracene ND 0.20 Azobenzene ND 0.20 Benz(a)anthracene ND 0.20 Benzo(a)pyrene ND 0.20 Benzo(b)fluoranthene ND 0.20 Benzo(q,h,i)perylene ND 0.20 ND 0.20 Benzo(k)fluoranthene Benzoic acid ND 0.50 ND 0.20 Benzyl alcohol Bis(2-chloroethoxy)methane ND 0.20 Bis(2-chloroethyl)ether ND 0.20 Bis(2-chloroisopropyl)ether ND 0.20 Bis(2-ethylhexyl)phthalate ND 0.50 4-Bromophenyl phenyl ether ND 0.20 Butyl benzyl phthalate ND 0.20 Carbazole ND 0.20 4-Chloro-3-methylphenol ND 0.50 4-Chloroaniline ND 0.50 2-Chloronaphthalene ND 0.25 2-Chlorophenol ND 0.20 4-Chlorophenyl phenyl ether ND 0.20 Chrysene ND 0.20 ND 0.50 Di-n-butyl phthalate Di-n-octyl phthalate ND 0.25 Dibenz(a,h)anthracene ND 0.20 Dibenzofuran ND 0.20 ND 0.20 1,2-Dichlorobenzene ND 0.20 1.3-Dichlorobenzene 1,4-Dichlorobenzene ND 0.20

TestCode: EPA Method 8270C: Semivolatiles

#### Qualifiers:

3.3´-Dichlorobenzidine

Diethyl phthalate

Dimethyl phthalate

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

2,6-Dinitrotoluene

4,6-Dinitro-2-methylphenol

\*/X Value exceeds Maximum Contaminant Level.

ND

ND

ND

ND

ND

ND

ND

ND

ND

0.25

0.20

0.20

0.40

0.30

0.50

0.40

0.50

0.50

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID mb-2036 SampType: MBLK TestCode: EPA Method 8270C: Semivolatiles Client ID: **PBS** Batch ID: 2036 RunNo: 2994 Analysis Date: 5/23/2012 Prep Date: 5/21/2012 SeqNo: 83109 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.20 Fluoranthene ND Fluorene ND 0.20 ND Hexachlorobenzene 0.20 Hexachlorobutadiene ND 0.20 Hexachlorocyclopentadiene ND 0.20 Hexachloroethane ND 0.20 Indeno(1,2,3-cd)pyrene ND 0.20 ND 0.50 Isophorone 1-Methylnaphthalene ND 0.20 2-Methylnaphthalene 0.20 ND 2-Methylphenol ND 0.50 ND 0.20 3+4-Methylphenol N-Nitrosodi-n-propylamine ND 0.20 N-Nitrosodiphenylamine ND 0.20 Naphthalene ND 0.20 2-Nitroaniline ND 0.20 3-Nitroaniline ND 0.20 4-Nitroaniline ND 0.40 Nitrobenzene ND 0.50 ND 0.20 2-Nitrophenol 0.25 4-Nitrophenol ND Pentachlorophenol ND 0.40 Phenanthrene ND 0.20 Phenol ND 0.20 Pyrene ND 0.20 ND 0.50 Pyridine 1,2,4-Trichlorobenzene ND 0.20 2,4,5-Trichlorophenol ND 0.20 2,4,6-Trichlorophenol ND 0.20 Surr: 2,4,6-Tribromophenol 3.330 52.1 20.1 121 1.7 Surr: 2-Fluorobiphenyl 0.78 1.670 46.5 19 133 45.2 20.2 Surr: 2-Fluorophenol 3.330 108 1.5 Surr: 4-Terphenyl-d14 0.89 1.670 53.1 18.9 115 Surr: Nitrobenzene-d5 0.75 1.670 44.9 20.8 123 Surr: Phenol-d5 1.7 3.330 50.4 19.8 115

Sample ID Ics-2036 SampType: LCS TestCode: EPA Method 8270C: Semivolatiles

Client ID: LCSS Batch ID: 2036 RunNo: 2994

Prep Date: 5/21/2012 Analysis Date: 5/23/2012 SeqNo: 83110 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 34 of 36

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815 24-May-12** 

Client: Intera, Inc.
Project: Enersource

Sample ID Ics-2036	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8270C: Sem	ivolatiles		
Client ID: LCSS	Batch	n ID: <b>20</b>	36	R	RunNo: 2	994				
Prep Date: 5/21/2012	Analysis D	ate: 5/	23/2012	S	SeqNo: 8	3110	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.670	0	70.6	38.6	100			
4-Chloro-3-methylphenol	2.9	0.50	3.330	0	85.7	35.8	108			
2-Chlorophenol	2.4	0.20	3.330	0	71.4	48.2	96.1			
1,4-Dichlorobenzene	1.0	0.20	1.670	0	60.2	42.5	97.6			
2,4-Dinitrotoluene	1.5	0.50	1.670	0	89.4	51.2	108			
N-Nitrosodi-n-propylamine	0.86	0.20	1.670	0	51.2	31.6	114			
4-Nitrophenol	2.5	0.25	3.330	0	73.8	22.7	144			
Pentachlorophenol	2.2	0.40	3.330	0	67.2	24	109			
Phenol	2.6	0.20	3.330	0	78.8	33.1	108			
Pyrene	1.3	0.20	1.670	0	76.3	42.7	98.9			
1,2,4-Trichlorobenzene	1.0	0.20	1.670	0	60.4	27.1	118			
Surr: 2,4,6-Tribromophenol	2.9		3.330		86.9	20.1	121			
Surr: 2-Fluorobiphenyl	1.2		1.670		70.3	19	133			
Surr: 2-Fluorophenol	2.2		3.330		66.1	20.2	108			
Surr: 4-Terphenyl-d14	1.5		1.670		88.4	18.9	115			
Surr: Nitrobenzene-d5	1.1		1.670		66.9	20.8	123			
Surr: Phenol-d5	2.7		3.330		81.2	19.8	115			

Sample ID 1205815-001Ams	SampT	ype: MS	6	Tes	tCode: <b>E</b> l	PA Method	8270C: Semi	ivolatiles		
Client ID: MW-07 (14'-19')	Batch	n ID: <b>20</b>	36	F	RunNo: 2	994				
Prep Date: 5/21/2012	Analysis D	ate: <b>5/</b>	23/2012	8	SeqNo: 8	3117	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.2	0.20	1.667	0	69.4	38.6	100			
4-Chloro-3-methylphenol	2.7	0.50	3.324	0	80.2	35.8	108			
2-Chlorophenol	2.9	0.20	3.324	0	86.1	48.2	96.1			
1,4-Dichlorobenzene	1.2	0.20	1.667	0	72.9	42.5	97.6			
2,4-Dinitrotoluene	ND	0.50	1.667	0	27.5	51.2	108			S
N-Nitrosodi-n-propylamine	ND	0.20	1.667	0	0	31.6	114			S
4-Nitrophenol	ND	0.25	3.324	0	0	22.7	144			S
Pentachlorophenol	0.81	0.40	3.324	0	24.2	24	109			
Phenol	2.9	0.20	3.324	0	86.9	33.1	108			
Pyrene	1.6	0.20	1.667	0	97.9	42.7	98.9			
1,2,4-Trichlorobenzene	0.96	0.20	1.667	0	57.6	27.1	118			
Surr: 2,4,6-Tribromophenol	0.32		3.324		9.75	20.1	121			S
Surr: 2-Fluorobiphenyl	0.71		1.667		42.8	19	133			
Surr: 2-Fluorophenol	2.2		3.324		65.8	20.2	108			
Surr: 4-Terphenyl-d14	1.2		1.667		73.3	18.9	115			
Surr: Nitrobenzene-d5	0		1.667		0	20.8	123			S
Surr: Phenol-d5	2.5		3.324		75.0	19.8	115			

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205815** 

24-May-12

Client: Intera, Inc.
Project: Enersource

Sample ID 1205815-001Amsd SampType: MSD TestCode: EPA Method 8270C: Semivolatiles Client ID: MW-07 (14'-19') Batch ID: 2036 RunNo: 2994 Prep Date: 5/21/2012 Analysis Date: 5/23/2012 SeqNo: 83118 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Acenaphthene 0.20 1.659 0 67.4 38.6 3.32 20 1.1 100 0 78.7 35.8 4-Chloro-3-methylphenol 2.6 0.50 3.309 108 2.33 20 85.3 0.20 0 48.2 2-Chlorophenol 2.8 3.309 96.1 1.50 20 1,4-Dichlorobenzene 1.2 0.20 1.659 0 72.4 42.5 97.6 1.18 20 28.4 S 2,4-Dinitrotoluene ND 0.50 1.659 0 51.2 108 0 20 N-Nitrosodi-n-propylamine ND 0.20 1.659 0 0 31.6 114 0 20 S S 4-Nitrophenol ND 0.25 3.309 0 0 22.7 144 0 20 Pentachlorophenol 0 S 0.75 0.40 3.309 22.7 24 109 6.99 20 Phenol 3.0 0.20 3.309 0 89.2 33.1 108 2.09 20 0.20 0 96.8 42.7 20 Pyrene 1.6 1.659 98.9 1.57 1,2,4-Trichlorobenzene 0.88 0.20 1.659 53.2 27.1 118 8.47 20 S 0.23 7.09 20.1 0 Surr: 2,4,6-Tribromophenol 3.309 121 0 38.6 Surr: 2-Fluorobiphenyl 0.64 1.659 19 133 0 0 Surr: 2-Fluorophenol 2.2 3.309 66.5 20.2 108 0 0 Surr: 4-Terphenyl-d14 1.2 1.659 72.0 18.9 115 0 0 S Surr: Nitrobenzene-d5 0 1.659 0 20.8 123 0 0 Surr: Phenol-d5 2.5 3.309 76.0 19.8 115 0 0

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit



#### Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: INT Work Order Number: 1205815 Received by/date: 5/17/2012 4:20:00 PM Logged By: **Ashley Gallegos** Completed By: **Ashley Gallegos** 5/18/2012 2:11:10 PM Reviewed By: Chain of Custody 1. Were seals intact? Nο Not Present ✓ Yes Not Present 2. Is Chain of Custody complete? No Yes 3 How was the sample delivered? Client Log In NA 4. Coolers are present? (see 19. for cooler specific information) No NA 5. Was an attempt made to cool the samples? Nο NA 6 Were all samples received at a temperature of >0° C to 6.0°C Yes Not required No 7 Sample(s) in proper container(s)? 8 Sufficient sample volume for indicated test(s)? No Are samples (except VOA and ONG) properly preserved? Nο Yes NA Nο 10. Was preservative added to bottles? Yes No VOA Vials 🗸 No Yes 11 VOA vials have zero headspace? No 12. Were any sample containers received broken? Yes # of preserved 13 Does paperwork match bottle labels? No Yes bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? Νo (<2 or >12 unless noted) Adjusted? Νo 15. Is it clear what analyses were requested? No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) NA 🗸 17. Was client notified of all discrepancies with this order? Yes No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: per LD use Sample ID's on LOC A-05/21/12 18. Additional remarks: 19 Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 8.6 Good Not Present

Client:	hain-of-	of-Cu	Chain-of-Custody Record	Tum-Around Time:	ime:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ì	HALL	EN		<u> </u>	<u> </u>	ENVIRONMEN	ΣŞ	ر م پ	
	1	) 5		Project Name:					<b>∢</b>	ZAL Ww.ha	ANALYSIS LABOKAIOKY www.hallenvironmental.com			֓֞֞֞֝֞֞֝֞֞֝֟֞֝֞֡֟֞֝֞֡֟֡֟֡֟֡֟֡֟֡֟֡֟֡֟֡֟֡֟֡	\$	5	¥	
Mailing /	Mailing Address:	6	AR	Enerso	からのの		4	901 H	4901 Hawkins NE	Ä.	Albuc	Albuquerque, NM 87109	ē,	M 871	60			
				Project #:			'	Tel. 50	Tel. 505-345-3975	3975	Fax	x 505	505-345-4107	4107				
Phone #	Phone #: (5eS)	ا ـ ا	246-1600	NMGSD. MODER		ENER, 42				4	Analysis		Request					
email or Fax#:		£ 39a	igalemore @intera.con	Project Manage	ler:			ļ		(				<u>,</u>				
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Accreditation (x) NELAP	tation \P	□ Other		Sampler: んく On Ice: 収	HZQ 7	صہ (کے) ۱۳۵۰ -								(A	P6-			(N Jo
© EDD	EDD (Type)			Sample Température	erature:	., 018								ΟΛ-	اگ		70	人)
Date	Time	Matrix	Sample Request ID	Container I	Preservative Type	HEALNG.	BTEX + MT	TM + ХЭТВ Вс108 НЯТ	orteM) H9T	EDB (Metho	RCRA 8 Me	O,7) anoinA oite99 1808	OV) 80628	imə2) 07 <u>2</u> 8	Chlorid			Air Bubbles
1/8/15	1010	50,)	MW-47 (191-197)	1/mot 124 2/402 /ars	2 2 1	100-		K		X			X		X			
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115/12	1750		MW-49 (19'-23')	-		-00st		Ŕ		$\times$			Ž		$\searrow$			
115/12	1540		MW-10 (24-29)	1 moch Kit		-MS		K		$\forall$			M		X			
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				,		·								a	S. C.	B	2111.	٨
<u>=</u>	necessary,	samples subi	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	ntracted to other acc	redited laboratories	s. This serves as notice of this	possibility	. Any su	b-contra	ted data	will be cl	earty not	ated on	the and	alytical re	sport.		l



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

June 08, 2012

Joe Galemore

Intera, Inc.

6000 Uptown Boulevard, NE Suite 220

Albuquerque, NM 87110 TEL: (505) 239-6414

FAX (505) 246-2600

RE: Enersource OrderNo.: 1205B43

#### Dear Joe Galemore:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/30/2012 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-12

 Project:
 Enersource
 Collection Date: 5/27/2012 12:30:00 PM

 Lab ID:
 1205B43-001
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

EPA METHOD 300.0: ANIONS         Chloride       6200       250       mg/L       500       6         EPA METHOD 8260B: VOLATILES         Benzene       1900       50       μg/L       50       6         Toluene       ND       5.0       μg/L       5       6         Ethylbenzene       33       5.0       μg/L       5       6         Methyl tert-butyl ether (MTBE)       ND       5.0       μg/L       5       6         1,2,4-Trimethylbenzene       20       5.0       μg/L       5       6	Analyst: <b>LRW</b> /4/2012 4:49:10 PM     Analyst: <b>BRM</b> /1/2012 11:44:22 PM     Analyst: <b>RAA</b> /4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
EPA METHOD 300.0: ANIONS Chloride 6200 250 mg/L 500 6.200 EPA METHOD 8260B: VOLATILES  Benzene 1900 50 µg/L 50 6.200 Toluene ND 5.0 µg/L 5 6.200 Ethylbenzene 33 5.0 µg/L 5 6.200 Methyl tert-butyl ether (MTBE) ND 5.0 µg/L 5 6.200 1,2,4-Trimethylbenzene 20 5.0 µg/L 5 6.200	Analyst: <b>BRM</b> /1/2012 11:44:22 PM Analyst: <b>RAA</b> /4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
Chloride         6200         250         mg/L         500         6           EPA METHOD 8260B: VOLATILES           Benzene         1900         50         μg/L         50         6           Toluene         ND         5.0         μg/L         5         6           Ethylbenzene         33         5.0         μg/L         5         6           Methyl tert-butyl ether (MTBE)         ND         5.0         μg/L         5         6           1,2,4-Trimethylbenzene         20         5.0         μg/L         5         6	/1/2012 11:44:22 PM Analyst: <b>RAA</b> /4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
EPA METHOD 8260B: VOLATILES         Benzene       1900       50       μg/L       50       6         Toluene       ND       5.0       μg/L       5       6         Ethylbenzene       33       5.0       μg/L       5       6         Methyl tert-butyl ether (MTBE)       ND       5.0       μg/L       5       6         1,2,4-Trimethylbenzene       20       5.0       μg/L       5       6	Analyst: <b>RAA</b> /4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
EPA METHOD 8260B: VOLATILES         Benzene       1900       50       μg/L       50       6         Toluene       ND       5.0       μg/L       5       6         Ethylbenzene       33       5.0       μg/L       5       6         Methyl tert-butyl ether (MTBE)       ND       5.0       μg/L       5       6         1,2,4-Trimethylbenzene       20       5.0       μg/L       5       6	Analyst: <b>RAA</b> /4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
Benzene         1900         50         μg/L         50         60           Toluene         ND         5.0         μg/L         5         60           Ethylbenzene         33         5.0         μg/L         5         60           Methyl tert-butyl ether (MTBE)         ND         5.0         μg/L         5         60           1,2,4-Trimethylbenzene         20         5.0         μg/L         5         60	/4/2012 4:19:19 PM /2/2012 6:59:48 AM /2/2012 6:59:48 AM
Toluene       ND       5.0       μg/L       5       6.         Ethylbenzene       33       5.0       μg/L       5       6.         Methyl tert-butyl ether (MTBE)       ND       5.0       μg/L       5       6.         1,2,4-Trimethylbenzene       20       5.0       μg/L       5       6.	/2/2012 6:59:48 AM /2/2012 6:59:48 AM
Ethylbenzene       33       5.0       μg/L       5       6.         Methyl tert-butyl ether (MTBE)       ND       5.0       μg/L       5       6.         1,2,4-Trimethylbenzene       20       5.0       μg/L       5       6.	/2/2012 6:59:48 AM
Methyl tert-butyl ether (MTBE)         ND         5.0         μg/L         5         6.           1,2,4-Trimethylbenzene         20         5.0         μg/L         5         6.	
1,2,4-Trimethylbenzene 20 5.0 μg/L 5 6.	
7.	/2/2012 6:59:48 AM
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	/2/2012 6:59:48 AM
, ,	/2/2012 6:59:48 AM
2-Methylnaphthalene ND 20 μg/L 5 6.	/2/2012 6:59:48 AM
Acetone ND 50 μg/L 5 6.	/2/2012 6:59:48 AM
Bromobenzene ND 5.0 µg/L 5 6.	/2/2012 6:59:48 AM
Bromodichloromethane ND 5.0 µg/L 5 6.	/2/2012 6:59:48 AM
Bromoform ND 5.0 μg/L 5 6.	/2/2012 6:59:48 AM
Bromomethane ND 15 µg/L 5 6	/2/2012 6:59:48 AM
· ·	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
· ·	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
1.5	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
1.5	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
,	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
, , , , , , , , , , , , , , , , , , , ,	/2/2012 6.59.46 AM /2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
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· · · · · · · · · · · · · · · · · · ·	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
	/2/2012 6:59:48 AM
• • • • • • • • • • • • • • • • • • • •	/2/2012 6:59:48 AM
1,2-Dichloropropane ND 5.0 $\mu$ g/L 5 6.	/2/2012 6:59:48 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. **Client Sample ID:** MW-12

Collection Date: 5/27/2012 12:30:00 PM **Project:** Enersource 1205B43-001 Matrix: AQUEOUS **Received Date:** 5/30/2012 9:00:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
2,2-Dichloropropane	ND	10	μg/L	5	6/2/2012 6:59:48 AM
1,1-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
Hexachlorobutadiene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
2-Hexanone	ND	50	μg/L	5	6/2/2012 6:59:48 AM
Isopropylbenzene	5.7	5.0	μg/L	5	6/2/2012 6:59:48 AM
4-Isopropyltoluene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
4-Methyl-2-pentanone	ND	50	μg/L	5	6/2/2012 6:59:48 AM
Methylene Chloride	ND	15	μg/L	5	6/2/2012 6:59:48 AM
n-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
n-Propylbenzene	6.8	5.0	μg/L	5	6/2/2012 6:59:48 AM
sec-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
Styrene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
tert-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,1,2,2-Tetrachloroethane	ND	10	μg/L	5	6/2/2012 6:59:48 AM
Tetrachloroethene (PCE)	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
trans-1,2-DCE	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
trans-1,3-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,2,3-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,2,4-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,1,1-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,1,2-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
Trichloroethene (TCE)	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
Trichlorofluoromethane	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
1,2,3-Trichloropropane	ND	10	μg/L	5	6/2/2012 6:59:48 AM
Vinyl chloride	ND	5.0	μg/L	5	6/2/2012 6:59:48 AM
Xylenes, Total	60	7.5	μg/L	5	6/2/2012 6:59:48 AM
Surr: 1,2-Dichloroethane-d4	94.0	70-130	%REC	5	6/2/2012 6:59:48 AM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	5	6/2/2012 6:59:48 AM
Surr: Dibromofluoromethane	100	69.8-130	%REC	5	6/2/2012 6:59:48 AM
Surr: Toluene-d8	94.3	70-130	%REC	5	6/2/2012 6:59:48 AM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: SNV
Total Dissolved Solids	13800	20.0	mg/L	1	6/1/2012 2:36:00 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level. \*/X
- Ε Value above quantitation range
- J Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit RL

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-07

 Project:
 Enersource
 Collection Date: 5/27/2012 9:45:00 AM

 Lab ID:
 1205B43-002
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 5:01:48 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>BRM</b>
Chloride	1700	50	mg/L	100	5/31/2012 1:36:33 AM
EPA METHOD 8260B: VOLATILES			3.		Analyst: RAA
Benzene	28	1.0	ug/l	1	6/2/2012 7:27:50 AM
Toluene			μg/L	1	6/2/2012 7:27:50 AM
	3.6 6.9	1.0	μg/L	1	6/2/2012 7:27:50 AM
Ethylbenzene		1.0	μg/L		
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2,4-Trimethylbenzene	16	1.0	μg/L "	1	6/2/2012 7:27:50 AM
1,3,5-Trimethylbenzene	4.7	1.0	μg/L "	1	6/2/2012 7:27:50 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L 	1	6/2/2012 7:27:50 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Naphthalene	4.1	2.0	μg/L	1	6/2/2012 7:27:50 AM
1-Methylnaphthalene	7.1	4.0	μg/L	1	6/2/2012 7:27:50 AM
2-Methylnaphthalene	5.7	4.0	μg/L	1	6/2/2012 7:27:50 AM
Acetone	ND	10	μg/L	1	6/2/2012 7:27:50 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 7:27:50 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 7:27:50 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 7:27:50 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 7:27:50 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 7:27:50 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2-Dibromo-3-chloropropane	ND ND	2.0		1	6/2/2012 7:27:50 AM
' ' '			μg/L		
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Dibromomethane	ND	1.0	μg/L "	1	6/2/2012 7:27:50 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,3-Dichlorobenzene	ND	1.0	μg/L "	1	6/2/2012 7:27:50 AM
1,4-Dichlorobenzene	ND	1.0	μg/L 	1	6/2/2012 7:27:50 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-07

 Project:
 Enersource
 Collection Date: 5/27/2012 9:45:00 AM

 Lab ID:
 1205B43-002
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 7:27:50 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 7:27:50 AM
Isopropylbenzene	1.5	1.0	μg/L	1	6/2/2012 7:27:50 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 7:27:50 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 7:27:50 AM
n-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
n-Propylbenzene	2.4	1.0	μg/L	1	6/2/2012 7:27:50 AM
sec-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 7:27:50 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 7:27:50 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 7:27:50 AM
Xylenes, Total	13	1.5	μg/L	1	6/2/2012 7:27:50 AM
Surr: 1,2-Dichloroethane-d4	96.4	70-130	%REC	1	6/2/2012 7:27:50 AM
Surr: 4-Bromofluorobenzene	97.4	70-130	%REC	1	6/2/2012 7:27:50 AM
Surr: Dibromofluoromethane	103	69.8-130	%REC	1	6/2/2012 7:27:50 AM
Surr: Toluene-d8	92.6	70-130	%REC	1	6/2/2012 7:27:50 AM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: SNV
Total Dissolved Solids	4630	20.0	mg/L	1	6/1/2012 2:36:00 PM

Qualifiers:

Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-10

 Project:
 Enersource
 Collection Date: 5/27/2012 3:50:00 PM

 Lab ID:
 1205B43-003
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 5:14:19 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>BRM</b>
Chloride	5100	250	mg/L	500	6/1/2012 11:56:47 PM
EPA METHOD 8260B: VOLATILES	0.00		9/=		Analyst: RAA
	0.5	4.0	//	4	-
Benzene	65	1.0	μg/L	1	6/4/2012 4:47:29 PM 6/4/2012 4:47:29 PM
Toluene	1.1	1.0	μg/L	1	
Ethylbenzene	26 ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2,4-Trimethylbenzene	21	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,3,5-Trimethylbenzene	5.5	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L "	1	6/4/2012 4:47:29 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L "	1	6/4/2012 4:47:29 PM
Naphthalene	3.6	2.0	μg/L "	1	6/4/2012 4:47:29 PM
1-Methylnaphthalene	4.8	4.0	μg/L "	1	6/4/2012 4:47:29 PM
2-Methylnaphthalene	4.6	4.0	μg/L	1	6/4/2012 4:47:29 PM
Acetone	ND	10	μg/L	1	6/4/2012 4:47:29 PM
Bromobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Bromodichloromethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Bromoform	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Bromomethane	ND	3.0	μg/L	1	6/4/2012 4:47:29 PM
2-Butanone	ND	10	μg/L	1	6/4/2012 4:47:29 PM
Carbon disulfide	ND	10	μg/L	1	6/4/2012 4:47:29 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Chlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Chloroethane	ND	2.0	μg/L	1	6/4/2012 4:47:29 PM
Chloroform	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Chloromethane	ND	3.0	μg/L	1	6/4/2012 4:47:29 PM
2-Chlorotoluene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
4-Chlorotoluene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
cis-1,2-DCE	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/4/2012 4:47:29 PM
Dibromochloromethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Dibromomethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Lab Order **1205B43**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/8/2012

**CLIENT:** Intera, Inc. Client Sample ID: MW-10

 Project:
 Enersource
 Collection Date: 5/27/2012 3:50:00 PM

 Lab ID:
 1205B43-003
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/4/2012 4:47:29 PM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
2-Hexanone	ND	10	μg/L	1	6/4/2012 4:47:29 PM
Isopropylbenzene	5.7	1.0	μg/L	1	6/4/2012 4:47:29 PM
4-Isopropyltoluene	1.2	1.0	μg/L	1	6/4/2012 4:47:29 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/4/2012 4:47:29 PM
Methylene Chloride	ND	3.0	μg/L	1	6/4/2012 4:47:29 PM
n-Butylbenzene	1.3	1.0	μg/L	1	6/4/2012 4:47:29 PM
n-Propylbenzene	6.8	1.0	μg/L	1	6/4/2012 4:47:29 PM
sec-Butylbenzene	3.3	1.0	μg/L	1	6/4/2012 4:47:29 PM
Styrene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
tert-Butylbenzene	1.2	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/4/2012 4:47:29 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
trans-1,2-DCE	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/4/2012 4:47:29 PM
Vinyl chloride	ND	1.0	μg/L	1	6/4/2012 4:47:29 PM
Xylenes, Total	42	1.5	μg/L	1	6/4/2012 4:47:29 PM
Surr: 1,2-Dichloroethane-d4	96.7	70-130	%REC	1	6/4/2012 4:47:29 PM
Surr: 4-Bromofluorobenzene	98.1	70-130	%REC	1	6/4/2012 4:47:29 PM
Surr: Dibromofluoromethane	102	69.8-130	%REC	1	6/4/2012 4:47:29 PM
Surr: Toluene-d8	93.0	70-130	%REC	1	6/4/2012 4:47:29 PM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: SNV
Total Dissolved Solids	12500	20.0	mg/L	1	6/1/2012 2:36:00 PM

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

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: Equipment Rinsate

 Project:
 Enersource
 Collection Date: 5/27/2012 5:30:00 PM

 Lab ID:
 1205B43-004
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

OF Date Analyzed
Analyst: <b>LRW</b>
1 6/4/2012 5:26:49 PM
Analyst: BRM
1 5/30/2012 3:11:53 PM
Analyst: RAA
1 6/2/2012 8:24:08 AM
1 6/2/2012 8:24:08 AM
1 6/2/2012 8:24:08 AM
1 6/2/2012 8:24:08 AM
1 6/2/2012 8:24:08 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: Equipment Rinsate

 Project:
 Enersource
 Collection Date: 5/27/2012 5:30:00 PM

 Lab ID:
 1205B43-004
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 8:24:08 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 8:24:08 AM
Isopropylbenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 8:24:08 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 8:24:08 AM
n-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
n-Propylbenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
sec-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 8:24:08 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 8:24:08 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 8:24:08 AM
Xylenes, Total	ND	1.5	μg/L	1	6/2/2012 8:24:08 AM
Surr: 1,2-Dichloroethane-d4	89.4	70-130	%REC	1	6/2/2012 8:24:08 AM
Surr: 4-Bromofluorobenzene	99.2	70-130	%REC	1	6/2/2012 8:24:08 AM
Surr: Dibromofluoromethane	91.7	69.8-130	%REC	1	6/2/2012 8:24:08 AM
Surr: Toluene-d8	94.6	70-130	%REC	1	6/2/2012 8:24:08 AM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: SNV
Total Dissolved Solids	ND	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Enersource Collection Date:

**Lab ID:** 1205B43-005 **Matrix:** TRIP BLANK **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Toluene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Ethylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Naphthalene	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 8:52:25 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 8:52:25 AM
Acetone	ND	10	μg/L	1	6/2/2012 8:52:25 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 8:52:25 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 8:52:25 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 8:52:25 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 8:52:25 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Dibromomethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 8:52:25 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Enersource Collection Date:

**Lab ID:** 1205B43-005 **Matrix:** TRIP BLANK **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Isopropylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 8:52:25 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 8:52:25 AM
n-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
n-Propylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
sec-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 8:52:25 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 8:52:25 AM
Xylenes, Total	ND	1.5	μg/L	1	6/2/2012 8:52:25 AM
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%REC	1	6/2/2012 8:52:25 AM
Surr: 4-Bromofluorobenzene	103	70-130	%REC	1	6/2/2012 8:52:25 AM
Surr: Dibromofluoromethane	99.3	69.8-130	%REC	1	6/2/2012 8:52:25 AM
Surr: Toluene-d8	94.5	70-130	%REC	1	6/2/2012 8:52:25 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-14

 Project:
 Enersource
 Collection Date: 5/28/2012 3:40:00 PM

 Lab ID:
 1205B43-006
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 5:39:20 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>BRM</b>
Chloride	6200	250	mg/L	500	6/2/2012 12:09:12 AM
EPA METHOD 8260B: VOLATILES			3		Analyst: RAA
Benzene	2900	100	ug/l	100	6/4/2012 5:43:51 PM
Toluene	2900		μg/L	100	6/2/2012 11:13:01 AM
	2.7 72	1.0	μg/L	1	
Ethylbenzene		1.0	μg/L		6/2/2012 11:13:01 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2,4-Trimethylbenzene	33	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,3,5-Trimethylbenzene	8.6	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Naphthalene	4.9	2.0	μg/L	1	6/2/2012 11:13:01 AM
1-Methylnaphthalene	8.5	4.0	μg/L	1	6/2/2012 11:13:01 AM
2-Methylnaphthalene	6.8	4.0	μg/L	1	6/2/2012 11:13:01 AM
Acetone	ND	10	μg/L	1	6/2/2012 11:13:01 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 11:13:01 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 11:13:01 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 11:13:01 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 11:13:01 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 11:13:01 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 11:13:01 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Dibromomethane	ND	1.0		1	6/2/2012 11:13:01 AM
			μg/L		6/2/2012 11:13:01 AM
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM 6/2/2012 11:13:01 AM
•	ND	1.0	μg/L	1	
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-14

 Project:
 Enersource
 Collection Date: 5/28/2012 3:40:00 PM

 Lab ID:
 1205B43-006
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 11:13:01 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 11:13:01 AM
Isopropylbenzene	14	1.0	μg/L	1	6/2/2012 11:13:01 AM
4-Isopropyltoluene	2.1	1.0	μg/L	1	6/2/2012 11:13:01 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 11:13:01 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 11:13:01 AM
n-Butylbenzene	2.8	1.0	μg/L	1	6/2/2012 11:13:01 AM
n-Propylbenzene	14	1.0	μg/L	1	6/2/2012 11:13:01 AM
sec-Butylbenzene	6.4	1.0	μg/L	1	6/2/2012 11:13:01 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
tert-Butylbenzene	1.7	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 11:13:01 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 11:13:01 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 11:13:01 AM
Xylenes, Total	69	1.5	μg/L	1	6/2/2012 11:13:01 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130	%REC	1	6/2/2012 11:13:01 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	6/2/2012 11:13:01 AM
Surr: Dibromofluoromethane	98.8	69.8-130	%REC	1	6/2/2012 11:13:01 AM
Surr: Toluene-d8	93.1	70-130	%REC	1	6/2/2012 11:13:01 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: SNV
Total Dissolved Solids	13400	20.0	mg/L	1	6/1/2012 2:36:00 PM

Qualifiers:

S Spike Recovery outside accepted recovery limits

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-13

 Project:
 Enersource
 Collection Date: 5/28/2012 12:10:00 PM

 Lab ID:
 1205B43-007
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 5:51:48 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	8600	250	mg/L	500	6/2/2012 12:21:37 AM
EPA METHOD 8260B: VOLATILES			3		Analyst: RAA
Benzene	6.5	1.0	ug/l	1	6/4/2012 6:40:00 PM
Toluene	ND		μg/L	1	6/4/2012 6:40:00 PM
	ND ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Ethylbenzene		1.0	μg/L		
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2,4-Trimethylbenzene	ND	1.0	μg/L "	1	6/4/2012 6:40:00 PM
1,3,5-Trimethylbenzene	ND	1.0	μg/L "	1	6/4/2012 6:40:00 PM
1,2-Dichloroethane (EDC)	2.3	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Naphthalene	ND	2.0	μg/L	1	6/4/2012 6:40:00 PM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/4/2012 6:40:00 PM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/4/2012 6:40:00 PM
Acetone	ND	10	μg/L	1	6/4/2012 6:40:00 PM
Bromobenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Bromodichloromethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Bromoform	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Bromomethane	ND	3.0	μg/L	1	6/4/2012 6:40:00 PM
2-Butanone	ND	10	μg/L	1	6/4/2012 6:40:00 PM
Carbon disulfide	ND	10	μg/L	1	6/4/2012 6:40:00 PM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Chlorobenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Chloroethane	ND	2.0	μg/L	1	6/4/2012 6:40:00 PM
Chloroform	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Chloromethane	ND	3.0	μg/L	1	6/4/2012 6:40:00 PM
2-Chlorotoluene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
4-Chlorotoluene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
cis-1,2-DCE	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L μg/L	1	6/4/2012 6:40:00 PM
• •					
Dibromochloromethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Dibromomethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,3-Dichlorobenzene	ND	1.0	μg/L "	1	6/4/2012 6:40:00 PM
1,4-Dichlorobenzene	ND	1.0	μg/L "	1	6/4/2012 6:40:00 PM
Dichlorodifluoromethane	ND	1.0	μg/L "	1	6/4/2012 6:40:00 PM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. **Client Sample ID:** MW-13

**Project:** Enersource **Collection Date:** 5/28/2012 12:10:00 PM 1205B43-007 Matrix: AQUEOUS **Received Date:** 5/30/2012 9:00:00 AM Lab ID:

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/4/2012 6:40:00 PM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
2-Hexanone	ND	10	μg/L	1	6/4/2012 6:40:00 PM
Isopropylbenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/4/2012 6:40:00 PM
Methylene Chloride	ND	3.0	μg/L	1	6/4/2012 6:40:00 PM
n-Butylbenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
n-Propylbenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
sec-Butylbenzene	1.3	1.0	μg/L	1	6/4/2012 6:40:00 PM
Styrene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
tert-Butylbenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/4/2012 6:40:00 PM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
trans-1,2-DCE	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/4/2012 6:40:00 PM
Vinyl chloride	ND	1.0	μg/L	1	6/4/2012 6:40:00 PM
Xylenes, Total	ND	1.5	μg/L	1	6/4/2012 6:40:00 PM
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%REC	1	6/4/2012 6:40:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	6/4/2012 6:40:00 PM
Surr: Dibromofluoromethane	98.1	69.8-130	%REC	1	6/4/2012 6:40:00 PM
Surr: Toluene-d8	93.1	70-130	%REC	1	6/4/2012 6:40:00 PM
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst: SNV
Total Dissolved Solids	18800	20.0	mg/L	1	6/1/2012 2:36:00 PM

Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit RL

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-13 (24'-29')

 Project:
 Enersource
 Collection Date: 5/26/2012 1:00:00 PM

 Lab ID:
 1205B43-008
 Matrix: MEOH (SOIL)
 Received Date: 5/30/2012 9:00:00 AM

Diese   Range Organics (DRO)	Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Motor Oil Range Organics (MRO)	EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: <b>JMP</b>
Motor Oil Range Organics (MRO)	Diesel Range Organics (DRO)	450	9.6		mg/Kg	1	6/6/2012 8:51:58 AM
Surric DNOP		ND	48			1	6/6/2012 8:51:58 AM
Gasoline Range Organics (GRO)   240   5.0   mg/Kg   1   6/2/2012 12:35:32 AM		109	82.1-121			1	6/6/2012 8:51:58 AM
Surr: BFB   1360   69.7-121   S %REC   1   6/2/2012 12:35:32 AM	EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Surr: BFB   1360   69.7-121   S %REC   1   6/2/2012 12:35:32 AM	Gasoline Range Organics (GRO)	240	5.0		ma/Ka	1	6/2/2012 12:35:32 AM
Chloride		1360	69.7-121	S		1	6/2/2012 12:35:32 AM
Page	EPA METHOD 300.0: ANIONS						Analyst: <b>SRM</b>
Page	Chloride	420	30		mg/Kg	20	6/1/2012 10:17:24 AM
Naphthalene	EPA METHOD 8270C: PAHS						Analyst: <b>JDC</b>
1-Methylnaphthalene 0.93 0.10 mg/Kg 5 6/6/2012 9:59:05 PM 2-Methylnaphthalene 0.96 0.10 mg/Kg 1 6/6/2012 9:59:05 PM Acenaphthylene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Acenaphthylene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Acenaphthene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Fluorene 0.046 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Phenanthrene 0.063 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Phenanthrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM Phenanthrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Phenanthrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PW Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PW Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM Pyrene ND 0.020 mg/Kg 1 6/6/2012 6:58:01 PM PM PW 0.020 mg/Kg 1 6/6/2012 6:5	Naphthalene	0.39	0.020		ma/Ka	1	
2-Methylnaphthalene         0.96         0.10         mg/Kg         5         6/6/2012 9:59:05 PM           Acenaphthylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Acenaphthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluorene         0.046         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Phenanthrene         0.063         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benz(a)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:	•						
Acenaphthylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Acenaphthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluorene         0.046         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Phenanthrene         0.063         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)lituoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01							
Acenaphthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluorene         0.046         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Phenanthrene         0.063         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benz(a)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benz(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g),hi)perylene         ND         0.020         mg/Kg         1	•						
Fluorene   0.046   0.020   mg/Kg   1   6/6/2012 6:58:01 PM	• •					1	6/6/2012 6:58:01 PM
Phenanthrene         0.063         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benz(a)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         <		0.046	0.020			1	6/6/2012 6:58:01 PM
Anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benz(a)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Bienzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(a)pyrene         ND         0.020         mg/Kg         1         6	Phenanthrene	0.063	0.020			1	6/6/2012 6:58:01 PM
Fluoranthene   ND   0.020   mg/Kg   1   6/6/2012 6:58:01 PM	Anthracene	ND	0.020			1	6/6/2012 6:58:01 PM
Pyrene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Benz(a)anthracene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Benzo(b)fluoranthene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1	Fluoranthene	ND	0.020			1	6/6/2012 6:58:01 PM
Benz(a)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Chrysene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a,h)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Dibenz(a,h)aprylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         S         %REC         1         6/6/2012 6:58:01 PM           Benzene         ND         0.25	Pyrene	ND	0.020			1	6/6/2012 6:58:01 PM
Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Dibenz(a,h)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         S %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES         *** Analyst: RAA**           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM     <	Benz(a)anthracene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Benzo(b)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(k)fluoranthene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Dibenz(a,h)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         S %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES         *** Analyst: RAA**           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM     <	Chrysene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Benzo(a)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Dibenz(a,h)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         \$ %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES         Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6	Benzo(b)fluoranthene	ND	0.020			1	6/6/2012 6:58:01 PM
Dibenz(a,h)anthracene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         S %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES         Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03	Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Benzo(g,h,i)perylene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         \$ %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES           Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.27         0.25         mg/K	Benzo(a)pyrene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Indeno(1,2,3-cd)pyrene         ND         0.020         mg/Kg         1         6/6/2012 6:58:01 PM           Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         \$ %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES           Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg	Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Surr: Benzo(e)pyrene         69.1         40.5-114         %REC         1         6/6/2012 6:58:01 PM           Surr: N-hexadecane         139         42.8-117         S %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES           Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg <td< td=""><td>Benzo(g,h,i)perylene</td><td>ND</td><td>0.020</td><td></td><td>mg/Kg</td><td>1</td><td>6/6/2012 6:58:01 PM</td></td<>	Benzo(g,h,i)perylene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
Surr: N-hexadecane         139         42.8-117         S %REC         1         6/6/2012 6:58:01 PM           EPA METHOD 8260B: VOLATILES           Analyst: RAA           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	6/6/2012 6:58:01 PM
EPA METHOD 8260B: VOLATILES           Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	Surr: Benzo(e)pyrene	69.1	40.5-114		%REC	1	6/6/2012 6:58:01 PM
Benzene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	Surr: N-hexadecane	139	42.8-117	S	%REC	1	6/6/2012 6:58:01 PM
Toluene         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	EPA METHOD 8260B: VOLATILES						Analyst: RAA
Ethylbenzene         2.0         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	Benzene	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Methyl tert-butyl ether (MTBE)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2,4-Trimethylbenzene         4.6         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,3,5-Trimethylbenzene         1.4         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dichloroethane (EDC)         ND         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           1,2-Dibromoethane (EDB)         0.27         0.25         mg/Kg         5         6/1/2012 5:08:03 AM           Naphthalene         ND         0.50         mg/Kg         5         6/1/2012 5:08:03 AM	Toluene	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,2,4-Trimethylbenzene       4.6       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,3,5-Trimethylbenzene       1.4       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,2-Dichloroethane (EDC)       ND       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,2-Dibromoethane (EDB)       0.27       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         Naphthalene       ND       0.50       mg/Kg       5       6/1/2012 5:08:03 AM	Ethylbenzene	2.0	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,3,5-Trimethylbenzene       1.4       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,2-Dichloroethane (EDC)       ND       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,2-Dibromoethane (EDB)       0.27       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         Naphthalene       ND       0.50       mg/Kg       5       6/1/2012 5:08:03 AM	Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,2-Dichloroethane (EDC)       ND       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         1,2-Dibromoethane (EDB)       0.27       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         Naphthalene       ND       0.50       mg/Kg       5       6/1/2012 5:08:03 AM	1,2,4-Trimethylbenzene	4.6	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,2-Dibromoethane (EDB)       0.27       0.25       mg/Kg       5       6/1/2012 5:08:03 AM         Naphthalene       ND       0.50       mg/Kg       5       6/1/2012 5:08:03 AM	1,3,5-Trimethylbenzene	1.4	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Naphthalene ND 0.50 mg/Kg 5 6/1/2012 5:08:03 AM	1,2-Dichloroethane (EDC)	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
	1,2-Dibromoethane (EDB)	0.27	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1-Methylnaphthalene ND 1.0 mg/Kg 5 6/1/2012 5:08:03 AM					mg/Kg	5	6/1/2012 5:08:03 AM
	1-Methylnaphthalene	ND	1.0		mg/Kg	5	6/1/2012 5:08:03 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-13 (24'-29')

 Project:
 Enersource
 Collection Date: 5/26/2012 1:00:00 PM

 Lab ID:
 1205B43-008
 Matrix: MEOH (SOIL)
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
2-Methylnaphthalene	ND	1.0	mg/Kg	5	6/1/2012 5:08:03 AM
Acetone	ND	3.8	mg/Kg	5	6/1/2012 5:08:03 AM
Bromobenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Bromodichloromethane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Bromoform	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Bromomethane	ND	0.75	mg/Kg	5	6/1/2012 5:08:03 AM
2-Butanone	ND	2.5	mg/Kg	5	6/1/2012 5:08:03 AM
Carbon disulfide	ND	2.5	mg/Kg	5	6/1/2012 5:08:03 AM
Carbon tetrachloride	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
Chlorobenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Chloroethane	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
Chloroform	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Chloromethane	ND	0.75	mg/Kg	5	6/1/2012 5:08:03 AM
2-Chlorotoluene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
4-Chlorotoluene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
cis-1,2-DCE	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
cis-1,3-Dichloropropene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,2-Dibromo-3-chloropropane	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
Dibromochloromethane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Dibromomethane	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
1,2-Dichlorobenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,3-Dichlorobenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,4-Dichlorobenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Dichlorodifluoromethane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,1-Dichloroethane	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
1,1-Dichloroethene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,2-Dichloropropane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,3-Dichloropropane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
2,2-Dichloropropane	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
1,1-Dichloropropene	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
Hexachlorobutadiene	ND	0.50	mg/Kg	5	6/1/2012 5:08:03 AM
2-Hexanone	ND	2.5	mg/Kg	5	6/1/2012 5:08:03 AM
Isopropylbenzene	1.3	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
4-Isopropyltoluene	0.56	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
4-Methyl-2-pentanone	ND	2.5	mg/Kg	5	6/1/2012 5:08:03 AM
Methylene chloride	ND	0.75	mg/Kg	5	6/1/2012 5:08:03 AM
n-Butylbenzene	1.4	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
n-Propylbenzene	1.7	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
sec-Butylbenzene	0.90	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
Styrene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
tert-Butylbenzene	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM
1,1,1,2-Tetrachloroethane	ND	0.25	mg/Kg	5	6/1/2012 5:08:03 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### **Analytical Report**

### Lab Order **1205B43**Date Reported: 6/8/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-13 (24'-29')

**Project:** Enersource Collection Date: 5/26/2012 1:00:00 PM

Lab ID: 1205B43-008 Matrix: MEOH (SOIL) Received Date: 5/30/2012 9:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
trans-1,2-DCE	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,2,3-Trichlorobenzene	ND	0.50		mg/Kg	5	6/1/2012 5:08:03 AM
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Trichlorofluoromethane	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	6/1/2012 5:08:03 AM
Vinyl chloride	ND	0.25		mg/Kg	5	6/1/2012 5:08:03 AM
Xylenes, Total	2.0	0.50		mg/Kg	5	6/1/2012 5:08:03 AM
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%REC	5	6/1/2012 5:08:03 AM
Surr: 4-Bromofluorobenzene	65.2	70-130	S	%REC	5	6/1/2012 5:08:03 AM
Surr: Dibromofluoromethane	103	71.7-132		%REC	5	6/1/2012 5:08:03 AM
Surr: Toluene-d8	91.8	70-130		%REC	5	6/1/2012 5:08:03 AM

Qualifiers:

S Spike Recovery outside accepted recovery limits

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-14 (19'-23')

 Project:
 Enersource
 Collection Date: 5/25/2012 11:45:00 AM

 Lab ID:
 1205B43-009
 Matrix: MEOH (SOIL)
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	1000	97		mg/Kg	10	5/31/2012 12:16:05 PM
Motor Oil Range Organics (MRO)	ND	480		mg/Kg	10	5/31/2012 12:16:05 PM
Surr: DNOP	0	82.1-121	S	%REC	10	5/31/2012 12:16:05 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	370	100		mg/Kg	20	6/2/2012 1:32:51 AM
Surr: BFB	226	69.7-121	S	%REC	20	6/2/2012 1:32:51 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	6/1/2012 10:29:49 AM
EPA METHOD 8270C: PAHS						Analyst: <b>JDC</b>
Naphthalene	1.3	0.20		mg/Kg	10	6/6/2012 7:20:15 PM
1-Methylnaphthalene	3.0	0.20		mg/Kg	10	6/6/2012 7:20:15 PM
2-Methylnaphthalene	3.2	0.20		mg/Kg	10	6/6/2012 7:20:15 PM
Acenaphthylene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Acenaphthene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Fluorene	0.063	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Phenanthrene	0.050	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Anthracene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Fluoranthene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Pyrene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Benz(a)anthracene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Chrysene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Benzo(b)fluoranthene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Benzo(k)fluoranthene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Benzo(a)pyrene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Dibenz(a,h)anthracene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Benzo(g,h,i)perylene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Indeno(1,2,3-cd)pyrene	ND	0.020		mg/Kg	1	6/6/2012 7:42:31 PM
Surr: Benzo(e)pyrene	53.7	40.5-114		%REC	1	6/6/2012 7:42:31 PM
Surr: N-hexadecane	121	42.8-117	S	%REC	1	6/6/2012 7:42:31 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
Toluene	ND	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
Ethylbenzene	5.4	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
1,2,4-Trimethylbenzene	8.3	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
1,3,5-Trimethylbenzene	3.0	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
1,2-Dichloroethane (EDC)	ND	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
1,2-Dibromoethane (EDB)	ND	1.0		mg/Kg	20	6/1/2012 5:36:12 AM
Naphthalene	2.1	2.0		mg/Kg	20	6/1/2012 5:36:12 AM
1-Methylnaphthalene	4.2	4.0		mg/Kg	20	6/1/2012 5:36:12 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-14 (19'-23')

 Project:
 Enersource
 Collection Date: 5/25/2012 11:45:00 AM

 Lab ID:
 1205B43-009
 Matrix: MEOH (SOIL)
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
2-Methylnaphthalene	5.2	4.0	mg/Kg	20	6/1/2012 5:36:12 AM
Acetone	ND	15	mg/Kg	20	6/1/2012 5:36:12 AM
Bromobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Bromodichloromethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Bromoform	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Bromomethane	ND	3.0	mg/Kg	20	6/1/2012 5:36:12 AM
2-Butanone	ND	10	mg/Kg	20	6/1/2012 5:36:12 AM
Carbon disulfide	ND	10	mg/Kg	20	6/1/2012 5:36:12 AM
Carbon tetrachloride	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Chlorobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Chloroethane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Chloroform	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Chloromethane	ND	3.0	mg/Kg	20	6/1/2012 5:36:12 AM
2-Chlorotoluene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
4-Chlorotoluene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
cis-1,2-DCE	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
cis-1,3-Dichloropropene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2-Dibromo-3-chloropropane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Dibromochloromethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Dibromomethane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2-Dichlorobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,3-Dichlorobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,4-Dichlorobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Dichlorodifluoromethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1-Dichloroethane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1-Dichloroethene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2-Dichloropropane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,3-Dichloropropane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
2,2-Dichloropropane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1-Dichloropropene	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Hexachlorobutadiene	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
2-Hexanone	ND	10	mg/Kg	20	6/1/2012 5:36:12 AM
Isopropylbenzene	2.0	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
4-Isopropyltoluene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
4-Methyl-2-pentanone	ND	10	mg/Kg	20	6/1/2012 5:36:12 AM
Methylene chloride	ND	3.0	mg/Kg	20	6/1/2012 5:36:12 AM
n-Butylbenzene	2.0	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
n-Propylbenzene	2.7	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
sec-Butylbenzene	1.4	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Styrene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
tert-Butylbenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1,1,2-Tetrachloroethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

#### **Analytical Report**

### Lab Order **1205B43**Date Reported: 6/8/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-14 (19'-23')

 Project:
 Enersource
 Collection Date: 5/25/2012 11:45:00 AM

 Lab ID:
 1205B43-009
 Matrix: MEOH (SOIL)
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,1,2,2-Tetrachloroethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Tetrachloroethene (PCE)	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
trans-1,2-DCE	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
trans-1,3-Dichloropropene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2,3-Trichlorobenzene	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2,4-Trichlorobenzene	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1,1-Trichloroethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,1,2-Trichloroethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Trichloroethene (TCE)	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Trichlorofluoromethane	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
1,2,3-Trichloropropane	ND	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Vinyl chloride	ND	1.0	mg/Kg	20	6/1/2012 5:36:12 AM
Xylenes, Total	11	2.0	mg/Kg	20	6/1/2012 5:36:12 AM
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%REC	20	6/1/2012 5:36:12 AM
Surr: 4-Bromofluorobenzene	72.7	70-130	%REC	20	6/1/2012 5:36:12 AM
Surr: Dibromofluoromethane	106	71.7-132	%REC	20	6/1/2012 5:36:12 AM
Surr: Toluene-d8	92.1	70-130	%REC	20	6/1/2012 5:36:12 AM

Qualifiers:

S Spike Recovery outside accepted recovery limits

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: Methanol Blank

**Project:** Enersource Collection Date:

**Lab ID:** 1205B43-010 **Matrix:** MEOH (SOIL) **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2012 2:30:23 AM
Surr: BFB	96.2	69.7-121	%REC	1	6/2/2012 2:30:23 AM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Toluene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2-Dichloroethane (EDC)	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Naphthalene	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
1-Methylnaphthalene	ND	0.20	mg/Kg	1	6/1/2012 6:32:18 AM
2-Methylnaphthalene	ND	0.20	mg/Kg	1	6/1/2012 6:32:18 AM
Acetone	ND	0.75	mg/Kg	1	6/1/2012 6:32:18 AM
Bromobenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Bromodichloromethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Bromoform	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Bromomethane	ND	0.15	mg/Kg	1	6/1/2012 6:32:18 AM
2-Butanone	ND	0.50	mg/Kg	1	6/1/2012 6:32:18 AM
Carbon disulfide	ND	0.50	mg/Kg	1	6/1/2012 6:32:18 AM
Carbon disdilide  Carbon tetrachloride	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
Chlorobenzene	ND ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Chloroethane	ND ND	0.030		1	6/1/2012 6:32:18 AM
Chloroform	ND ND		mg/Kg	1	6/1/2012 6:32:18 AM
		0.050	mg/Kg		
Chloromethane	ND	0.15	mg/Kg	1	6/1/2012 6:32:18 AM
2-Chlorotoluene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
4-Chlorotoluene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
cis-1,2-DCE	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
cis-1,3-Dichloropropene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2-Dibromo-3-chloropropane	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
Dibromochloromethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Dibromomethane	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
1,2-Dichlorobenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,3-Dichlorobenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,4-Dichlorobenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Dichlorodifluoromethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,1-Dichloroethane	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
1,1-Dichloroethene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2-Dichloropropane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,3-Dichloropropane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: Methanol Blank

**Project:** Enersource Collection Date:

**Lab ID:** 1205B43-010 **Matrix:** MEOH (SOIL) **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
2,2-Dichloropropane	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
1,1-Dichloropropene	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
Hexachlorobutadiene	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
2-Hexanone	ND	0.50	mg/Kg	1	6/1/2012 6:32:18 AM
Isopropylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
4-Isopropyltoluene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
4-Methyl-2-pentanone	ND	0.50	mg/Kg	1	6/1/2012 6:32:18 AM
Methylene chloride	ND	0.15	mg/Kg	1	6/1/2012 6:32:18 AM
n-Butylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
n-Propylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
sec-Butylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Styrene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
tert-Butylbenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Tetrachloroethene (PCE)	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
trans-1,2-DCE	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
trans-1,3-Dichloropropene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,1,1-Trichloroethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,1,2-Trichloroethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Trichloroethene (TCE)	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Trichlorofluoromethane	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
1,2,3-Trichloropropane	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
Vinyl chloride	ND	0.050	mg/Kg	1	6/1/2012 6:32:18 AM
Xylenes, Total	ND	0.10	mg/Kg	1	6/1/2012 6:32:18 AM
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%REC	1	6/1/2012 6:32:18 AM
Surr: 4-Bromofluorobenzene	91.3	70-130	%REC	1	6/1/2012 6:32:18 AM
Surr: Dibromofluoromethane	103	71.7-132	%REC	1	6/1/2012 6:32:18 AM
Surr: Toluene-d8	96.3	70-130	%REC	1	6/1/2012 6:32:18 AM

Qualifiers:

Spike Recovery outside accepted recovery limits

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

E Value above quantitation range

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2183 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 2183 RunNo: 3153

Prep Date: 5/31/2012 Analysis Date: 6/1/2012 SeqNo: 87137 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-2183 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 2183 RunNo: 3153

Prep Date: 5/31/2012 Analysis Date: 6/1/2012 SeqNo: 87138 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.6 90 110

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B43

08-Jun-12

Client:	Intera, In	c.									
Project:	Enersour	ce									
Sample ID	MB	SampT	ype: <b>M</b> I	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBW	•	) ID: <b>R</b> 3		RunNo: 3108						
Prep Date:		Analysis D				SeqNo: 8		Units: mg/L			
·		Result	PQL		SPK Ref Val	·		· ·	%RPD	RPDLimit	Ougl
Analyte Chloride		ND	0.50	SFK value	SFR Rei Vai	76KEC	LOWLITTIL	HighLimit	70KPD	KPDLIIIII	Qual
Sample ID	108	SamnT	ype: <b>L(</b>	`e	Tos	tCode: <b>E</b>	DA Mothod	300.0: Anion	<u> </u>		
Client ID:	LCSW		iD: R3			RunNo: 3		300.0. Allion	3		
Prep Date:	LC3VV	Analysis D				SeqNo: 8		Units: mg/L			
•		•				·		•			
Analyte Chloride		Result 4.9	PQL 0.50	SPK value 5.000	SPK Ref Val	%REC 98.9	LowLimit 90	HighLimit 110	%RPD	RPDLimit	Qual
Tiloride		4.5	0.50	3.000	0	30.3	90	110			
Sample ID	МВ	SampT	ype: M	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	PBW	Batch	ID: R	3112	F	RunNo: 3	112				
Prep Date:		Analysis D	ate: <b>5</b>	/30/2012	5	SeqNo: 8	6071	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	0.50								
Sample ID	LCS SampType: LCS				Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSW Batch ID: R3112			3112	F	RunNo: 3	112				
Prep Date:		Analysis D	ate: <b>5</b>	/30/2012	8	SeqNo: 8	6072	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		4.8	0.50	5.000	0	96.5	90	110			
Sample ID	1205B43-004CMS	SampT	ype: <b>M</b> :	 S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	Equipment Rinsa		1D: <b>R</b> 3			RunNo: 3					
Prep Date:		Analysis D	ate: <b>5</b>	/30/2012	9	SeqNo: 8	6087	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		4.9	0.50	5.000	0.2114	93.1	78	107	701 CI	A DEIIIII	Quai
Comple ID	420ED42 0040340	D CompT	ivno: Na	<u> </u>	Tan	tCodo: <b>-</b>	DA Mether t	200 0. Amis			
Sample ID:	1205B43-004CMS Equipment Rinsa		ype: <b>M</b> : n ID: <b>R:</b>			tCode: <b>E</b> RunNo: <b>3</b>		300.0: Anion	5		
Prep Date:	Equipment Kinsa	Analysis D				SegNo: 8		Units: mg/L			
•		•				·		J		DDD// '	
Analyte Chloride		Result 4.9	PQL 0.50	SPK value 5.000	SPK Ref Val 0.2114	%REC 93.4	LowLimit 78	HighLimit 107	%RPD 0.358	RPDLimit 20	Qual
Sample ID		•	ype: <b>M</b> I					300.0: Anion	s		
Client ID:	PBW		ı ID: R3			RunNo: 3					
Prep Date:		Analysis D	ate: <b>5</b>	/30/2012	S	SeqNo: 8	6123	Units: mg/L			
		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
Analyte		Nesuit	. ~=								

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

J

Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R3112 RunNo: 3112

Prep Date: Analysis Date: 5/30/2012 SeqNo: 86124 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.7 0.50 5.000 0 93.8 90 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R3173 RunNo: 3173

Prep Date: Analysis Date: 6/1/2012 SeqNo: 87634 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R3173 RunNo: 3173

Prep Date: Analysis Date: 6/1/2012 SeqNo: 87636 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.7 0.50 5.000 0 93.1 90 110

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2220 SampType: MBLK TestCode: EPA Method 8011/504.1: EDB

Client ID: PBW Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88089 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

1,2-Dibromoethane ND 0.010

Sample ID LCS-2220 SampType: LCS TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSW Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88093 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

1,2-Dibromoethane 0.089 0.010 0.1000 0 89.0 70 130

Sample ID LCSD-2220 SampType: LCSD TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSS02 Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88094 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

1,2-Dibromoethane 0.075 0.010 0.1000 0 75.0 70 130 17.1 20

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2164 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: **PBS** Batch ID: 2164 RunNo: 3105 Units: mg/Kg Prep Date: 5/30/2012 Analysis Date: 5/31/2012 SeqNo: 85860 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 113 82.1 11 121

Sample ID LCS-2164 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics Client ID: LCSS Batch ID: 2164 RunNo: 3105 Units: mg/Kg Prep Date: 5/30/2012 Analysis Date: 5/31/2012 SeqNo: 85861 Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.00 93.4 52.6 130 Surr: DNOP 4.7 5.000 94.4 82.1 121

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B43

08-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Surr: BFB

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

PBS Client ID: Batch ID: R3156 RunNo: 3156

Prep Date: Analysis Date: 6/1/2012 SeqNo: 87730 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 92.0 69.7 121

TestCode: EPA Method 8015B: Gasoline Range Sample ID 2.5UG GRO LCS SampType: LCS

Client ID: LCSS Batch ID: R3156 RunNo: 3156

990

Prep Date: Analysis Date: 6/1/2012 SeqNo: 87731 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 112 98.5 133

99.1

69.7

121

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 28 of 44

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES PBS Client ID: Batch ID: R3132 RunNo: 3132 Prep Date: Analysis Date: 5/31/2012 SeqNo: 86497 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 ND 0.050 Toluene ND Ethylbenzene 0.050 Methyl tert-butyl ether (MTBE) ND 0.050 1,2,4-Trimethylbenzene ND 0.050 1,3,5-Trimethylbenzene ND 0.050 1,2-Dichloroethane (EDC) ND 0.050 1,2-Dibromoethane (EDB) ND 0.050 Naphthalene ND 0.10 ND 0.20 1-Methylnaphthalene 2-Methylnaphthalene ND 0.20 ND 0.75 Acetone ND 0.050 Bromobenzene Bromodichloromethane ND 0.050 Bromoform ND 0.050 Bromomethane ND 0.15 2-Butanone ND 0.50 Carbon disulfide ND 0.50 Carbon tetrachloride ND 0.10 Chlorobenzene ND 0.050 Chloroethane ND 0.10 Chloroform ND 0.050 Chloromethane ND 0.15 2-Chlorotoluene ND 0.050 4-Chlorotoluene ND 0.050 cis-1,2-DCE ND 0.050 cis-1,3-Dichloropropene ND 0.050 1,2-Dibromo-3-chloropropane ND 0.10 Dibromochloromethane ND 0.050 ND 0.10 Dibromomethane ND 0.050 1.2-Dichlorobenzene 1,3-Dichlorobenzene ND 0.050 1.4-Dichlorobenzene ND 0.050 Dichlorodifluoromethane ND 0.050 1,1-Dichloroethane ND 0.10 1,1-Dichloroethene ND 0.050 ND 0.050 1,2-Dichloropropane 1,3-Dichloropropane ND 0.050 2,2-Dichloropropane ND 0.10 ND 0.10 1,1-Dichloropropene ND 0.10 Hexachlorobutadiene

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb	SampT	SampType: MBLK TestCode: EF					8260B: VOL	ATILES		
Client ID: PBS	Batcl	n ID: <b>R3</b>	132	R	RunNo: 3	132				
Prep Date:	Analysis D	oate: 5/	31/2012	S	SeqNo: 80	6497	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	0.50								
Isopropylbenzene	ND	0.050								
4-Isopropyltoluene	ND	0.050								
4-Methyl-2-pentanone	ND	0.50								
Methylene chloride	ND	0.15								
n-Butylbenzene	ND	0.050								
n-Propylbenzene	ND	0.050								
sec-Butylbenzene	ND	0.050								
Styrene	ND	0.050								
tert-Butylbenzene	ND	0.050								
1,1,1,2-Tetrachloroethane	ND	0.050								
1,1,2,2-Tetrachloroethane	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-1,2-DCE	ND	0.050								
trans-1,3-Dichloropropene	ND	0.050								
1,2,3-Trichlorobenzene	ND	0.10								
1,2,4-Trichlorobenzene	ND	0.050								
1,1,1-Trichloroethane	ND	0.050								
1,1,2-Trichloroethane	ND	0.050								
Trichloroethene (TCE)	ND	0.050								
Trichlorofluoromethane	ND	0.050								
1,2,3-Trichloropropane	ND	0.10								
Vinyl chloride	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	71.7	132			
Surr: Toluene-d8	0.48		0.5000		95.6	70	130			

Sample ID 100ng Ics	SampT	Гуре: <b>LC</b>	:s	Test	tCode: El					
Client ID: LCSS	Batch	h ID: <b>R3</b>	132	R	RunNo: 3132					
Prep Date:	Analysis Date: 5/31/2012			SeqNo: 86500 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	94.9	70.7	123			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Chlorobenzene	0.94	0.050	1.000	0	94.2	70	130			
1,1-Dichloroethene	1.0	0.050	1.000	0	104	63.1	148			
Trichloroethene (TCE)	0.91	0.050	1.000	0	91.4	63.2	114			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			

#### Qualifiers:

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<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 100ng Ics SampType: LCS TestCode: EPA Method 8260B: VOLATILES

Client ID: LCSS Batch ID: R3132 RunNo: 3132

Prep Date: Analysis Date: 5/31/2012 SeqNo: 86500 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: Dibromofluoromethane
 0.51
 0.5000
 102
 71.7
 132

 Surr: Toluene-d8
 0.48
 0.5000
 96.8
 70
 130

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES **PBW** Client ID: Batch ID: R3155 RunNo: 3155 Prep Date: Analysis Date: 6/1/2012 SeqNo: 87441 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 ND Toluene 1.0 ND Ethylbenzene 1.0 Methyl tert-butyl ether (MTBE) ND 1.0 1,2,4-Trimethylbenzene ND 1.0 1,3,5-Trimethylbenzene ND 1.0 1,2-Dichloroethane (EDC) ND 1.0 1,2-Dibromoethane (EDB) ND 1.0 Naphthalene ND 2.0 ND 1-Methylnaphthalene 4.0 2-Methylnaphthalene ND 4.0 ND 10 Acetone ND 1.0 Bromobenzene Bromodichloromethane ND 1.0 Bromoform ND 1.0 Bromomethane ND 3.0 2-Butanone ND 10 Carbon disulfide ND 10 Carbon Tetrachloride ND 1.0 Chlorobenzene ND 1.0 Chloroethane ND 2.0 Chloroform ND 1.0 ND Chloromethane 3.0 2-Chlorotoluene ND 1.0 4-Chlorotoluene ND 1.0 cis-1,2-DCE ND 1.0 cis-1,3-Dichloropropene ND 1.0 1,2-Dibromo-3-chloropropane ND 2.0 Dibromochloromethane ND 1.0 ND Dibromomethane 1.0 ND 1.0 1.2-Dichlorobenzene 1,3-Dichlorobenzene ND 1.0 1.4-Dichlorobenzene ND 1.0 Dichlorodifluoromethane ND 1.0 1,1-Dichloroethane ND 1.0 1,1-Dichloroethene ND 1.0 ND 1.0 1,2-Dichloropropane 1,3-Dichloropropane ND 1.0 2,2-Dichloropropane ND 2.0 ND 1.0 1,1-Dichloropropene ND Hexachlorobutadiene 1.0

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb	SampT	ype: ME	BLK	Tes	estCode: EPA Method 8260B: VOLATILES					
Client ID: PBW	Batch	1D: <b>R3</b>	155	F	RunNo: 3	155				
Prep Date:	Analysis D	ate: 6/	1/2012	S	SeqNo: 8	7441	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Sample ID 100ng Ics	SampT	ype: <b>LC</b>	s	Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch	1D: <b>R3</b>	155	R	RunNo: <b>3155</b>						
Prep Date:	Analysis Date: 6/1/2012			SeqNo: <b>87445</b> Units: μg/							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	19	1.0	20.00	0	93.9	84.1	126				
Toluene	19	1.0	20.00	0	92.6	80	120				
Chlorobenzene	19	1.0	20.00	0	95.3	70	130				
1,1-Dichloroethene	20	1.0	20.00	0	99.7	83	130				
Trichloroethene (TCE)	18	1.0	20.00	0	91.2	76.2	119				
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.3	70	130				
Surr: 4-Bromofluorobenzene	9.8		10.00		98.2	70	130				

#### Qualifiers:

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<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 100ng Ics SampType: LCS TestCode: EPA Method 8260B: VOLATILES

Client ID: LCSW Batch ID: R3155 RunNo: 3155

Prep Date: Analysis Date: 6/1/2012 SeqNo: 87445 Units: µg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Dibromofluoromethane 10 10.00 99.6 69.8 130 Surr: Toluene-d8 9.7 10.00 97.1 70 130

Sample ID b8 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW Batch ID: R3155 RunNo: 3155 Prep Date: Analysis Date: 6/1/2012 SeqNo: 87481 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0

DCHZCHC	ND	1.0
Toluene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether (MTBE)	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0
1,2-Dichloroethane (EDC)	ND	1.0
1,2-Dibromoethane (EDB)	ND	1.0
Naphthalene	ND	2.0
1-Methylnaphthalene	ND	4.0
2-Methylnaphthalene	ND	4.0
Acetone	ND	10
Bromobenzene	ND	1.0
Bromodichloromethane	ND	1.0
Bromoform	ND	1.0
Bromomethane	ND	3.0
2-Butanone	ND	10
Carbon disulfide	ND	10
Carbon Tetrachloride	ND	1.0
Chlorobenzene	ND	1.0
Chloroethane	ND	2.0
Chloroform	ND	1.0
Chloromethane	ND	3.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
cis-1,2-DCE	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
1,2-Dibromo-3-chloropropane	ND	2.0
Dibromochloromethane	ND	1.0
Dibromomethane	ND	1.0
1,2-Dichlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID b8 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: **PBW** Batch ID: R3155 RunNo: 3155 Analysis Date: 6/1/2012 Prep Date: SeqNo: 87481 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Dichlorodifluoromethane ND 1.0 ND 1,1-Dichloroethane 1.0 ND 1,1-Dichloroethene 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.0 2,2-Dichloropropane ND 2.0 1,1-Dichloropropene ND 1.0 Hexachlorobutadiene ND 1.0 2-Hexanone ND 10 ND Isopropylbenzene 1.0 4-Isopropyltoluene ND 1.0 ND 10 4-Methyl-2-pentanone Methylene Chloride ND 3.0 n-Butylbenzene ND 1.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 ND 1.0 Styrene tert-Butylbenzene ND 1.0 1,1,1,2-Tetrachloroethane ND 1.0 1.1.2.2-Tetrachloroethane ND 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 ND trans-1,3-Dichloropropene 1.0 1,2,3-Trichlorobenzene ND 1.0 1,2,4-Trichlorobenzene ND 1.0 1.1.1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0 Vinyl chloride ND 1.0 Xylenes, Total ND 1.5 Surr: 1.2-Dichloroethane-d4 9.4 10.00 93.7 70 130 Surr: 4-Bromofluorobenzene 10 10.00 102 70 130 Surr: Dibromofluoromethane 10 10.00 99.7 69.8 130 Surr: Toluene-d8 9.4 10.00 94.2 70 130

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID b13

Sample ID 100ng lcs2	SampT	ype: <b>LC</b>	S	TestCode: EPA Method 8260B: VOLATILES						
Client ID: LCSW	Batch	n ID: <b>R3</b>	155	F	RunNo: 3	155				
Prep Date:	Analysis Date: 6/1/2012			SeqNo: <b>87483</b>			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.7	84.1	126			
Toluene	18	1.0	20.00	0	88.4	80	120			
Chlorobenzene	18	1.0	20.00	0	89.0	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.2	83	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.2	76.2	119			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	10		10.00		103	69.8	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW	Batch ID: R3155			F	RunNo: 3	155				
Prep Date:	Analysis D	oate: 6/	2/2012	5	SeqNo: 8	7507	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client:	Intera, Inc.
Project:	Enersource

Sample ID b13	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch	n ID: <b>R3</b>	155	F	RunNo: 3	155						
Prep Date:	Analysis D	ate: 6/	2/2012	5	SeqNo: 8	7507	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
cis-1,3-Dichloropropene	ND	1.0										
1,2-Dibromo-3-chloropropane	ND	2.0										
Dibromochloromethane	ND	1.0										
Dibromomethane	ND	1.0										
1,2-Dichlorobenzene	ND	1.0										
1,3-Dichlorobenzene	ND	1.0										
1,4-Dichlorobenzene	ND	1.0										
Dichlorodifluoromethane	ND	1.0										
1,1-Dichloroethane	ND	1.0										
1,1-Dichloroethene	ND	1.0										
1,2-Dichloropropane	ND	1.0										
1,3-Dichloropropane	ND	1.0										
2,2-Dichloropropane	ND	2.0										
1,1-Dichloropropene	ND	1.0										
Hexachlorobutadiene	ND	1.0										
2-Hexanone	ND	10										
Isopropylbenzene	ND	1.0										
4-Isopropyltoluene	ND	1.0										
4-Methyl-2-pentanone	ND	10										
Methylene Chloride	ND	3.0										
n-Butylbenzene	ND	1.0										
n-Propylbenzene	ND	1.0										
sec-Butylbenzene	ND	1.0										
Styrene	ND	1.0										
tert-Butylbenzene	ND	1.0										
1,1,1,2-Tetrachloroethane	ND	1.0										
1,1,2,2-Tetrachloroethane	ND	2.0										
Tetrachloroethene (PCE)	ND	1.0										
trans-1,2-DCE	ND	1.0										
trans-1,3-Dichloropropene	ND	1.0										
1,2,3-Trichlorobenzene	ND	1.0										
1,2,4-Trichlorobenzene	ND	1.0										
1,1,1-Trichloroethane	ND	1.0										
1,1,2-Trichloroethane	ND	1.0										
Trichloroethene (TCE)	ND	1.0										
Trichlorofluoromethane	ND	1.0										
1,2,3-Trichloropropane	ND	2.0										
Vinyl chloride	ND	1.0										
Xylenes, Total	ND	1.5										
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.4	70	130					
Surr: 4-Bromofluorobenzene	9.8		10.00		98.5	70	130					

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B43

08-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID b13 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW Batch ID: R3155 RunNo: 3155

Analysis Date: 6/2/2012 Prep Date: SeqNo: 87507 Units: µg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Dibromofluoromethane 100 69.8 10 10.00 130 94.9 Surr: Toluene-d8 9.5 10.00 70 130

Sample ID 100ng Ics3 SampType: LCS TestCode: EPA Method 8260B: VOLATILES Client ID: LCSW Batch ID: R3155 RunNo: 3155 Prep Date: Analysis Date: 6/2/2012 SeqNo: 87508 Units: µg/L **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

Result Analyte **RPDLimit** Qual Benzene 19 1.0 20.00 0 94.1 84.1 126 0 84.7 Toluene 17 20.00 80 120 1.0 Chlorobenzene 18 1.0 20.00 0 88.9 70 130 20 20.00 0 97.7 1,1-Dichloroethene 1.0 83 130 Trichloroethene (TCE) 17 20.00 85.5 76.2 119 Surr: 1,2-Dichloroethane-d4 9.2 91.6 10.00 70 130 10 Surr: 4-Bromofluorobenzene 10.00 102 70 130 Surr: Dibromofluoromethane 10 10.00 101 69.8 130 Surr: Toluene-d8 9.4 10.00 93.8 70 130

Sample ID 1205b43-006a ms	SampT	SampType: MS TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-14	Batch	n ID: <b>R3</b>	155	F	RunNo: 3	155				
Prep Date:	Analysis D	ate: <b>6/</b>	2/2012	8	SeqNo: 8	7509	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	2.659	86.9	74	121			
Chlorobenzene	18	1.0	20.00	0	88.8	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	98.5	76.3	127			
Trichloroethene (TCE)	18	1.0	20.00	0	91.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	10		10.00		99.8	69.8	130			

10.00

Sample ID 1205b43-006a ms	SD	TestCode: EPA Method 8260B: VOLATILES								
Client ID: MW-14	Batch	1D: <b>R3</b>	155	RunNo: <b>3155</b>						
Prep Date:	Analysis D	ate: 6/	2/2012	S	SeqNo: 8	7510	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	20	1.0	20.00	2.659	88.3	74	121	1.40	18.5	
Chlorobenzene	18	1.0	20.00	0	90.4	70	130	1.73	17.7	
1,1-Dichloroethene	20	1.0	20.00	0	97.6	76.3	127	1.00	16.5	
Trichloroethene (TCE)	18	1.0	20.00	0	88.3	70	130	3.01	18.9	
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.3	70	130	0	0	

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

9.5

Value above quantitation range

Surr: Toluene-d8

T Analyte detected below quantitation limits

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

94.6

70

130

Reporting Detection Limit

Page 38 of 44

### Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb

Sample ID 1205b43-006a msd SampType: MSD TestCode: EPA Method 8260B: VOLATILES Client ID: MW-14 Batch ID: R3155 RunNo: 3155 Prep Date: SeqNo: 87510 Analysis Date: 6/2/2012 Units: µg/L Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 9.8 10.00 98.0 70 130 0 0

TestCode: EPA Method 8260B: VOLATILES

Surr: Dibromofluoromethane 10 10.00 103 69.8 0 130 0 Surr: Toluene-d8 9.8 10.00 97.8 70 130 0 0

Campio is Gill 18	Ournp i	) PO. IIII	J_IX	rootoodo. El A motilod 0200				AIILLO		
Client ID: PBW	Batch	n ID: R3	3190	F	RunNo: 3	190				
Prep Date:	Analysis D	oate: 6	/4/2012	8	SeqNo: 8	8240	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES PBW Client ID: Batch ID: R3190 RunNo: 3190 Analysis Date: 6/4/2012 Prep Date: SeqNo: 88240 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1,4-Dichlorobenzene ND 1.0 ND Dichlorodifluoromethane 1.0 ND 1,1-Dichloroethane 1.0 1,1-Dichloroethene ND 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.0 2,2-Dichloropropane ND 2.0 ND 1.0 1,1-Dichloropropene Hexachlorobutadiene ND 1.0 ND 10 2-Hexanone Isopropylbenzene ND 1.0 4-Isopropyltoluene ND 1.0 4-Methyl-2-pentanone ND 10 Methylene Chloride ND 3.0 n-Butylbenzene ND 1.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 Styrene ND 1.0 tert-Butylbenzene ND 1.0 1.1.1.2-Tetrachloroethane ND 1.0 ND 1,1,2,2-Tetrachloroethane 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 trans-1,3-Dichloropropene ND 1.0 1,2,3-Trichlorobenzene ND 1.0 1.2.4-Trichlorobenzene ND 1.0 1,1,1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0 Vinyl chloride ND 1.0 Xylenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.5 10.00 94.6 70 130 Surr: 4-Bromofluorobenzene 9.9 10.00 99.2 70 130 Surr: Dibromofluoromethane 102 10 10.00 69.8 130 Surr: Toluene-d8 9.5 10.00 94.9 130 70

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 100ng Ics Client ID: LCSW		ype: LC			tCode: El		8260B: VOL	ATILES		
Prep Date:	Analysis D	Date: <b>6/</b>	4/2012	S			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.0	84.1	126			
Toluene	18	1.0	20.00	0	90.0	80	120			
Chlorobenzene	19	1.0	20.00	0	92.5	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	83	130			
Trichloroethene (TCE)	18	1.0	20.00	0	92.5	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

#### Qualifiers:

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 41 of 44

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B43

08-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID mb-2242 SampType: MBLK TestCode: EPA Method 8270C: PAHs **PBS** Client ID: Batch ID: 2242 RunNo: 3256 6/5/2012 Units: mg/Kg Prep Date: Analysis Date: 6/6/2012 SeqNo: 90370 Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Naphthalene ND 0.020 1-Methylnaphthalene ND 0.020 2-Methylnaphthalene ND 0.020 Acenaphthylene ND 0.020 Acenaphthene ND 0.020 Fluorene ND 0.020 Phenanthrene ND 0.020 Anthracene ND 0.020 Fluoranthene ND 0.020 ND Pyrene 0.020 Benz(a)anthracene ND 0.020 ND 0.020 Chrysene ND 0.020 Benzo(b)fluoranthene Benzo(k)fluoranthene ND 0.020 Benzo(a)pyrene ND 0.020 Dibenz(a,h)anthracene ND 0.020 Benzo(g,h,i)perylene ND 0.020 Indeno(1,2,3-cd)pyrene ND 0.020 0.29 87.8 40.5 Surr: Benzo(e)pyrene 0.3300 114 Surr: N-hexadecane 1.3 1.460 90.9 42.8 117

Sample ID Ics-2242	SampType: LCS TestCode: EPA Method 8270C: PAHs									
Client ID: LCSS	Batc	n ID: <b>22</b> 4	42	R	RunNo: 3	256				
Prep Date: 6/5/2012	Analysis [	Date: <b>6/</b>	6/2012	S	SeqNo: <b>90371</b>		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.27	0.020	0.3300	0	80.7	50.15	108.9			
1-Methylnaphthalene	0.28	0.020	0.3300	0	86.1	49.96	108.45			
2-Methylnaphthalene	0.28	0.020	0.3300	0	85.7	53.36	116.25			
Acenaphthylene	0.26	0.020	0.3300	0	78.8	48.44	106.25			
Acenaphthene	0.26	0.020	0.3300	0	77.5	51.23	105.53			
Fluorene	0.27	0.020	0.3300	0	80.6	48.42	104.49			
Phenanthrene	0.27	0.020	0.3300	0	81.0	51.76	107.81			
Anthracene	0.26	0.020	0.3300	0	80.2	51.74	104.29			
Fluoranthene	0.23	0.020	0.3300	0	71.0	54.67	103.26			
Pyrene	0.25	0.020	0.3300	0	76.6	57.16	111.06			
Benz(a)anthracene	0.25	0.020	0.3300	0	77.2	59.07	102.66			
Chrysene	0.27	0.020	0.3300	0	82.3	58.19	107.82			
Benzo(b)fluoranthene	0.28	0.020	0.3300	0	84.6	54.1	110.08			
Benzo(k)fluoranthene	0.27	0.020	0.3300	0	80.5	52.04	108.39			
Benzo(a)pyrene	0.27	0.020	0.3300	0	83.0	53.67	103.1			

#### Qualifiers:

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits T

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID Ics-2242	SampT	ype: <b>LC</b>	s	Tes	tCode: E	PA Method	8270C: PAH	5		
Client ID: LCSS	Batch	n ID: 22	42	RunNo: <b>3256</b>						
Prep Date: 6/5/2012	Analysis D	Date: <b>6/</b>	6/2012	S	SeqNo: 9	0371	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	0.28	0.020	0.3300	0	83.7	54.55	106.56			
Benzo(g,h,i)perylene	0.29	0.020	0.3300	0	87.4	51.48	105.08			
Indeno(1,2,3-cd)pyrene	0.27	0.020	0.3300	0	83.0	55.5	104.02			
Surr: Benzo(e)pyrene	0.29		0.3300		86.4	35.28	118.46			
Surr: N-hexadecane	1.2		1.460		81.3	36.19	122.5			

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B43** 

08-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2165 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87223 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-2165 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87224 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 8.000 101 80 120

Sample ID 1205B43-003CMS SampType: MS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: MW-10 Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87235 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 13500 20.0 1000 12480 102 80 120

Sample ID 1205B43-003CMSD SampType: MSD TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: MW-10 Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87236 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 13500 20.0 1000 12480 97.7 80 120 0.349 20

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NI: Albuquerque, NM 87105

### Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name: INT Work Order Number: 1205B43 Received by/date: Logged By: Lindsay Mangin Completed By: Lindsay Mangin 5/30/2012 10:28:04 AM 05/30/12 Reviewed By: Chain of Custody 1 Were seals intact? Not Present ✔ No Yes 2. Is Chain of Custody complete? No Not Present Yes 3. How was the sample delivered? <u>FedEx</u> Log In 4. Coolers are present? (see 19. for cooler specific information) NA No 5. Was an attempt made to cool the samples? Nο NA 6. Were all samples received at a temperature of >0° C to 6.0°C NA 7. Sample(s) in proper container(s)? No 8. Sufficient sample volume for indicated test(s)? No 9 Are samples (except VOA and ONG) properly preserved? No 10. Was preservative added to bottles? No NA Yes 11. VOA vials have zero headspace? Nο No VOA Vials Yes 12. Were any sample containers received broken? Yes No # of preserved 13. Does paperwork match bottle labels? No Yes bottles checked (Note-discrepancies-on-chain-of-custody) for pH: 14. Are matrices correctly identified on Chain of Custody? No (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? No 16. Were all holding times able to be met? (If no, notify customer for authorization.) 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

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			901	<u>  -</u>		AKD Sel)		15B ( <del>G)</del>	08	TPH Method								×	X					Any sı
			4	_						TM + X3T8											_		Remarks:	ibility.
				Γ.		(	1208) 8	1 9'8MT 4	- ∃E	TM + X3T8								_				_	<u>8</u> 8	s boss
					1:02 :0x1		ž			HEALNO: 12058/13	100-	-002	-1003	404	-055	-026	-007	-00×	-003				Date Time	. This serves as notice of thi
Turn-Around Time:	ndard 🗆 <b>Rush</b> _	Name:	Enersoure	<u> </u>	FYD, ENER. MWZ	Project Manager:	Joe Galemone	r. U. Prix NYes	Sample Temperature: //	iner Preservative	4 your plashi ise				<u> </u>	please H5025 sorts	<b>→</b>	is moot	$\rightarrow$	7			by: Walder	other accredited laboratories
Turn-A	Standard	Project Name:	$\Box$	Project #:	PWG50	Project	( )	Sampler: On Ice:	Sample	Container Type and #	4 Jess m	·		_	3 40AS	1 Soom plest	د_	1 meory bit	<u>'</u> ـــ			, ,	Received by:	ontracted to
Chain-of-Custody Record			カチ		246-1600	galemore Centera, com	☐ Level 4 (Full Validation)	, li		Sample Request ID	71-MW	mw-o7	Q1-MW	Egurpment Russals	Trù Blank	WW-IH	MW-13	imm-13 (24-29")	MW-14 (19-23")			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ad by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accreated laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
-of-Cu	28		ઢ		505-2	igale	, )	□ Other		Matrix	AB	AR	A.	Aa	A	AB	Aa	Ŋ	S			Odeine Gilod	Relinquished by	samples subn
hain	Intera		Mailing Address:			email or Fax#:	QA/QC Package: \(\overline{\overline	itation AP	(Type)_	Time	1230	SHBO	1550	1730	0320	1540	1210	1300	1945				Time:	necessary,
<u>ر</u>	Client:		Mailing		Phone #:	email o	QA/QC Packa	Accreditation	EDD (Type)	Date	11/12	137/12	127/12	27/12	27/12	21/87	21/28/12	2) 20 (12	1125/12			jo	Date:	<b>=</b>



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

June 11, 2012

Joe Galemore

Intera, Inc.

6000 Uptown Boulevard, NE Suite 220

Albuquerque, NM 87110 TEL: (505) 239-6414 FAX (505) 246-2600

RE: Enersource OrderNo.: 1205B40

#### Dear Joe Galemore:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/30/2012 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109



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

**Case Narrative** 

WO#: **1205B40**Date: **6/11/2012** 

CLIENT: Intera, Inc. Project: Enersource

Analytical Notes for TDS:

The following samples were received past the 7 day holding time: MW-01, MW-06, MW-04, MW-05

Date Reported: 6/11/2012

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-01

 Project:
 Enersource
 Collection Date: 5/22/2012 3:45:00 PM

 Lab ID:
 1205B40-001
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 2:56:04 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>BRM</b>
Chloride	3800	250	mg/L	500	6/4/2012 6:12:24 PM
EPA METHOD 8260B: VOLATILES	3333		9/=		Analyst: RAA
	4 7	4.0	/1	4	-
Benzene	1.7	1.0	μg/L	1	6/2/2012 1:50:09 AM
Toluene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Ethylbenzene	2.1	1.0	μg/L	1	6/2/2012 1:50:09 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L "	1	6/2/2012 1:50:09 AM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Naphthalene	ND	2.0	μg/L	1	6/2/2012 1:50:09 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 1:50:09 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 1:50:09 AM
Acetone	ND	10	μg/L	1	6/2/2012 1:50:09 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 1:50:09 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 1:50:09 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 1:50:09 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 1:50:09 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 1:50:09 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
cis-1,3-Dichloropropene	ND	1.0		1	6/2/2012 1:50:09 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 1:50:09 AM
			μg/L	•	
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Dibromomethane	ND	1.0	μg/L "	1	6/2/2012 1:50:09 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,3-Dichlorobenzene	ND	1.0	μg/L "	1	6/2/2012 1:50:09 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 1:50:09 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc. Client Sample ID: MW-01

**Project:** Enersource
 Collection Date: 5/22/2012 3:45:00 PM

 **Lab ID:** 1205B40-001
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL (	Qual 1	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: <b>RAA</b>
1,3-Dichloropropane	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
2,2-Dichloropropane	ND	2.0		μg/L	1	6/2/2012 1:50:09 AM
1,1-Dichloropropene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
Hexachlorobutadiene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
2-Hexanone	ND	10		μg/L	1	6/2/2012 1:50:09 AM
Isopropylbenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
4-Isopropyltoluene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
4-Methyl-2-pentanone	ND	10		μg/L	1	6/2/2012 1:50:09 AM
Methylene Chloride	ND	3.0		μg/L	1	6/2/2012 1:50:09 AM
n-Butylbenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
n-Propylbenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
sec-Butylbenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
Styrene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
tert-Butylbenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,1,1,2-Tetrachloroethane	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,1,2,2-Tetrachloroethane	ND	2.0		μg/L	1	6/2/2012 1:50:09 AM
Tetrachloroethene (PCE)	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
trans-1,2-DCE	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
trans-1,3-Dichloropropene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,2,3-Trichlorobenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,2,4-Trichlorobenzene	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,1,1-Trichloroethane	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,1,2-Trichloroethane	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
Trichloroethene (TCE)	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
Trichlorofluoromethane	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
1,2,3-Trichloropropane	ND	2.0		μg/L	1	6/2/2012 1:50:09 AM
Vinyl chloride	ND	1.0		μg/L	1	6/2/2012 1:50:09 AM
Xylenes, Total	ND	1.5		μg/L	1	6/2/2012 1:50:09 AM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	6/2/2012 1:50:09 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	6/2/2012 1:50:09 AM
Surr: Dibromofluoromethane	95.6	69.8-130		%REC	1	6/2/2012 1:50:09 AM
Surr: Toluene-d8	96.9	70-130		%REC	1	6/2/2012 1:50:09 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analyst: SNV
Total Dissolved Solids	11800	20.0	Н	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-06

 Project:
 Enersource
 Collection Date: 5/22/2012 5:15:00 PM

 Lab ID:
 1205B40-002
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: LRW
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 3:08:40 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	5500	250	mg/L	500	6/4/2012 6:24:48 PM
EPA METHOD 8260B: VOLATILES			9/ =		Analyst: RAA
	4000	20	//	20	-
Benzene	1900	20	μg/L	20	6/2/2012 2:46:37 AM
Toluene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Ethylbenzene	20 ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L "	5	6/4/2012 2:26:46 PM
1,2,4-Trimethylbenzene	ND	5.0	μg/L "	5	6/4/2012 2:26:46 PM
1,3,5-Trimethylbenzene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,2-Dichloroethane (EDC)	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,2-Dibromoethane (EDB)	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Naphthalene	ND	10	μg/L	5	6/4/2012 2:26:46 PM
1-Methylnaphthalene	ND	20	μg/L	5	6/4/2012 2:26:46 PM
2-Methylnaphthalene	ND	20	μg/L	5	6/4/2012 2:26:46 PM
Acetone	ND	50	μg/L	5	6/4/2012 2:26:46 PM
Bromobenzene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Bromodichloromethane	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Bromoform	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Bromomethane	ND	15	μg/L	5	6/4/2012 2:26:46 PM
2-Butanone	ND	50	μg/L	5	6/4/2012 2:26:46 PM
Carbon disulfide	ND	50	μg/L	5	6/4/2012 2:26:46 PM
Carbon Tetrachloride	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Chlorobenzene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Chloroethane	ND	10	μg/L	5	6/4/2012 2:26:46 PM
Chloroform	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Chloromethane	ND	15	μg/L	5	6/4/2012 2:26:46 PM
2-Chlorotoluene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
4-Chlorotoluene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
cis-1,2-DCE	ND	5.0	μg/L μg/L	5	6/4/2012 2:26:46 PM
cis-1,3-Dichloropropene	ND	5.0		5 5	6/4/2012 2:26:46 PM
	ND ND		μg/L		6/4/2012 2:26:46 PM
1,2-Dibromo-3-chloropropane		10	μg/L	5	
Dibromochloromethane	ND	5.0	μg/L "	5	6/4/2012 2:26:46 PM
Dibromomethane	ND	5.0	μg/L "	5	6/4/2012 2:26:46 PM
1,2-Dichlorobenzene	ND	5.0	μg/L "	5	6/4/2012 2:26:46 PM
1,3-Dichlorobenzene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,4-Dichlorobenzene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
Dichlorodifluoromethane	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,1-Dichloroethane	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,1-Dichloroethene	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM
1,2-Dichloropropane	ND	5.0	μg/L	5	6/4/2012 2:26:46 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/11/2012

CLIENT: Intera, Inc. Client Sample ID: MW-06

**Collection Date:** 5/22/2012 5:15:00 PM **Project:** Enersource 1205B40-002 Matrix: AQUEOUS **Received Date:** 5/30/2012 9:00:00 AM Lab ID:

Analyses	Result	RL (	Qual U	nits	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,3-Dichloropropane	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
2,2-Dichloropropane	ND	10		ug/L	5	6/4/2012 2:26:46 PM
1,1-Dichloropropene	ND	5.0		ug/L	5	6/4/2012 2:26:46 PM
Hexachlorobutadiene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
2-Hexanone	ND	50	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Isopropylbenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
4-Isopropyltoluene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
4-Methyl-2-pentanone	ND	50	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Methylene Chloride	ND	15	ŀ	ug/L	5	6/4/2012 2:26:46 PM
n-Butylbenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
n-Propylbenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
sec-Butylbenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Styrene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
tert-Butylbenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,1,1,2-Tetrachloroethane	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,1,2,2-Tetrachloroethane	ND	10	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Tetrachloroethene (PCE)	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
trans-1,2-DCE	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
trans-1,3-Dichloropropene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,2,3-Trichlorobenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,2,4-Trichlorobenzene	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,1,1-Trichloroethane	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,1,2-Trichloroethane	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Trichloroethene (TCE)	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Trichlorofluoromethane	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
1,2,3-Trichloropropane	ND	10	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Vinyl chloride	ND	5.0	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Xylenes, Total	18	7.5	ŀ	ug/L	5	6/4/2012 2:26:46 PM
Surr: 1,2-Dichloroethane-d4	89.2	70-130	Ç	%REC	5	6/4/2012 2:26:46 PM
Surr: 4-Bromofluorobenzene	98.4	70-130	Ç	%REC	5	6/4/2012 2:26:46 PM
Surr: Dibromofluoromethane	95.1	69.8-130	Ċ	%REC	5	6/4/2012 2:26:46 PM
Surr: Toluene-d8	92.0	70-130	Ç	%REC	5	6/4/2012 2:26:46 PM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS					Analyst: SNV
Total Dissolved Solids	14200	20.0	H r	mg/L	1	6/1/2012 2:36:00 PM

Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit RL

Date Reported: 6/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-04

 Project:
 Enersource
 Collection Date: 5/23/2012 10:40:00 AM

 Lab ID:
 1205B40-003
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 3:21:14 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	6300	250	mg/L	500	6/4/2012 6:37:13 PM
EPA METHOD 8260B: VOLATILES	0000		9/=		Analyst: RAA
Benzene	1.4	1.0	ug/l	1	6/2/2012 3:42:48 AM
Toluene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Ethylbenzene Methyl tort butyl ethor (MTRE)	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,3,5-Trimethylbenzene			μg/L	1	
1,2-Dichloroethane (EDC)	ND ND	1.0 1.0	μg/L	1	6/2/2012 3:42:48 AM 6/2/2012 3:42:48 AM
1,2-Dibromoethane (EDB)	ND ND	2.0	μg/L	1	6/2/2012 3:42:48 AM
Naphthalene			μg/L	1	
1-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 3:42:48 AM
2-Methylnaphthalene Acetone	ND	4.0	μg/L		6/2/2012 3:42:48 AM
	ND	10	μg/L	1	6/2/2012 3:42:48 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Bromodichloromethane Bromoform	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 3:42:48 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 3:42:48 AM
Carbon disulfide	ND	10	μg/L "	1	6/2/2012 3:42:48 AM
Carbon Tetrachloride	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
Chlorobenzene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
Chloroethane	ND	2.0	μg/L "	1	6/2/2012 3:42:48 AM
Chloroform	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
Chloromethane	ND	3.0	μg/L "	1	6/2/2012 3:42:48 AM
2-Chlorotoluene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
4-Chlorotoluene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
cis-1,2-DCE	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 3:42:48 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Dibromomethane	ND	1.0	μg/L 	1	6/2/2012 3:42:48 AM
1,2-Dichlorobenzene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,4-Dichlorobenzene	ND	1.0	μg/L "	1	6/2/2012 3:42:48 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Intera, Inc. Client Sample ID: MW-04

 Project:
 Enersource
 Collection Date: 5/23/2012 10:40:00 AM

 Lab ID:
 1205B40-003
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 3:42:48 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 3:42:48 AM
Isopropylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 3:42:48 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 3:42:48 AM
n-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
n-Propylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
sec-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 3:42:48 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 3:42:48 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 3:42:48 AM
Xylenes, Total	ND	1.5	μg/L	1	6/2/2012 3:42:48 AM
Surr: 1,2-Dichloroethane-d4	94.9	70-130	%REC	1	6/2/2012 3:42:48 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1	6/2/2012 3:42:48 AM
Surr: Dibromofluoromethane	99.5	69.8-130	%REC	1	6/2/2012 3:42:48 AM
Surr: Toluene-d8	97.8	70-130	%REC	1	6/2/2012 3:42:48 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: SNV
Total Dissolved Solids	13300	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc.

Client Sample ID: MW-05

 Project:
 Enersource
 Collection Date: 5/23/2012 2:45:00 PM

 Lab ID:
 1205B40-004
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 3:33:50 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	3100	250	mg/L	500	6/4/2012 6:49:38 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
	290	F 0	//	E	6/2/2012 4:10:53 AM
Benzene		5.0	μg/L	5	
Toluene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Ethylbenzene	7.2	5.0	μg/L	5	6/2/2012 4:10:53 AM
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2,4-Trimethylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,3,5-Trimethylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2-Dichloroethane (EDC)	7.8	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2-Dibromoethane (EDB)	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Naphthalene	ND	10	μg/L	5	6/2/2012 4:10:53 AM
1-Methylnaphthalene	ND	20	μg/L	5	6/2/2012 4:10:53 AM
2-Methylnaphthalene	ND	20	μg/L	5	6/2/2012 4:10:53 AM
Acetone	ND	50	μg/L	5	6/2/2012 4:10:53 AM
Bromobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Bromodichloromethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Bromoform	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Bromomethane	ND	15	μg/L	5	6/2/2012 4:10:53 AM
2-Butanone	ND	50	μg/L	5	6/2/2012 4:10:53 AM
Carbon disulfide	ND	50	μg/L	5	6/2/2012 4:10:53 AM
Carbon Tetrachloride	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Chlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Chloroethane	ND	10	μg/L	5	6/2/2012 4:10:53 AM
Chloroform	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Chloromethane	ND	15	μg/L	5	6/2/2012 4:10:53 AM
2-Chlorotoluene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
4-Chlorotoluene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
cis-1,2-DCE	ND	5.0		5	6/2/2012 4:10:53 AM
cis-1,2-DCE cis-1,3-Dichloropropene	ND ND	5.0	μg/L	5 5	6/2/2012 4:10:53 AM
	ND ND		μg/L		6/2/2012 4:10:53 AM
1,2-Dibromo-3-chloropropane		10	μg/L	5	
Dibromochloromethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Dibromomethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,3-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,4-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Dichlorodifluoromethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1-Dichloroethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1-Dichloroethene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2-Dichloropropane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc. Client Sample ID: MW-05

 Project:
 Enersource
 Collection Date: 5/23/2012 2:45:00 PM

 Lab ID:
 1205B40-004
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
2,2-Dichloropropane	ND	10	μg/L	5	6/2/2012 4:10:53 AM
1,1-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Hexachlorobutadiene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
2-Hexanone	ND	50	μg/L	5	6/2/2012 4:10:53 AM
Isopropylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
4-Isopropyltoluene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
4-Methyl-2-pentanone	ND	50	μg/L	5	6/2/2012 4:10:53 AM
Methylene Chloride	ND	15	μg/L	5	6/2/2012 4:10:53 AM
n-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
n-Propylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
sec-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Styrene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
tert-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1,2,2-Tetrachloroethane	ND	10	μg/L	5	6/2/2012 4:10:53 AM
Tetrachloroethene (PCE)	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
trans-1,2-DCE	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
trans-1,3-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2,3-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2,4-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1,1-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,1,2-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Trichloroethene (TCE)	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Trichlorofluoromethane	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
1,2,3-Trichloropropane	ND	10	μg/L	5	6/2/2012 4:10:53 AM
Vinyl chloride	ND	5.0	μg/L	5	6/2/2012 4:10:53 AM
Xylenes, Total	ND	7.5	μg/L	5	6/2/2012 4:10:53 AM
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%REC	5	6/2/2012 4:10:53 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	5	6/2/2012 4:10:53 AM
Surr: Dibromofluoromethane	99.6	69.8-130	%REC	5	6/2/2012 4:10:53 AM
Surr: Toluene-d8	94.3	70-130	%REC	5	6/2/2012 4:10:53 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: SNV
Total Dissolved Solids	8230	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-08

 Project:
 Enersource
 Collection Date: 5/25/2012 5:18:00 PM

 Lab ID:
 1205B40-005
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 3:46:27 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	4100	250	mg/L	500	6/4/2012 7:02:02 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
	75	1.0	//	4	-
Benzene	75	1.0	μg/L	1	6/2/2012 4:39:09 AM
Toluene	14	1.0	μg/L	1	6/2/2012 4:39:09 AM
Ethylbenzene	1.8	1.0	μg/L	1	6/2/2012 4:39:09 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2,4-Trimethylbenzene	53	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,3,5-Trimethylbenzene	21	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Naphthalene	6.3	2.0	μg/L	1	6/2/2012 4:39:09 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 4:39:09 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 4:39:09 AM
Acetone	ND	10	μg/L	1	6/2/2012 4:39:09 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 4:39:09 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 4:39:09 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 4:39:09 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 4:39:09 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 4:39:09 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 4:39:09 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Dibromomethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,4-Dichlorobenzene	ND	1.0	μg/L μg/L	1	6/2/2012 4:39:09 AM
Dichlorodifluoromethane	ND ND	1.0		1	6/2/2012 4:39:09 AM
			μg/L		
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc. Client Sample ID: MW-08

 Project:
 Enersource
 Collection Date: 5/25/2012 5:18:00 PM

 Lab ID:
 1205B40-005
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 4:39:09 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 4:39:09 AM
Isopropylbenzene	22	1.0	μg/L	1	6/2/2012 4:39:09 AM
4-Isopropyltoluene	3.6	1.0	μg/L	1	6/2/2012 4:39:09 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 4:39:09 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 4:39:09 AM
n-Butylbenzene	3.8	1.0	μg/L	1	6/2/2012 4:39:09 AM
n-Propylbenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
sec-Butylbenzene	6.9	1.0	μg/L	1	6/2/2012 4:39:09 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 4:39:09 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 4:39:09 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 4:39:09 AM
Xylenes, Total	200	1.5	μg/L	1	6/2/2012 4:39:09 AM
Surr: 1,2-Dichloroethane-d4	97.1	70-130	%REC	1	6/2/2012 4:39:09 AM
Surr: 4-Bromofluorobenzene	98.7	70-130	%REC	1	6/2/2012 4:39:09 AM
Surr: Dibromofluoromethane	100	69.8-130	%REC	1	6/2/2012 4:39:09 AM
Surr: Toluene-d8	96.7	70-130	%REC	1	6/2/2012 4:39:09 AM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: SNV
Total Dissolved Solids	12100	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-09

 Project:
 Enersource
 Collection Date: 5/25/2012 1:31:00 PM

 Lab ID:
 1205B40-006
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 3:58:59 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>BRM</b>
Chloride	7100	500	mg/L	1000	6/5/2012 1:11:00 PM
EPA METHOD 8260B: VOLATILES			9/=		Analyst: RAA
Benzene	3200	100	ua/l	100	6/4/2012 3:51:14 PM
Toluene			μg/L		6/2/2012 5:07:22 AM
	33 71	5.0	μg/L	5	6/2/2012 5:07:22 AM
Ethylbenzene		5.0	μg/L	5	
Methyl tert-butyl ether (MTBE)	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2,4-Trimethylbenzene	32	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,3,5-Trimethylbenzene	9.3	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2-Dichloroethane (EDC)	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2-Dibromoethane (EDB)	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Naphthalene	ND	10	μg/L	5	6/2/2012 5:07:22 AM
1-Methylnaphthalene	ND	20	μg/L	5	6/2/2012 5:07:22 AM
2-Methylnaphthalene	ND	20	μg/L	5	6/2/2012 5:07:22 AM
Acetone	ND	50	μg/L	5	6/2/2012 5:07:22 AM
Bromobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Bromodichloromethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Bromoform	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Bromomethane	ND	15	μg/L	5	6/2/2012 5:07:22 AM
2-Butanone	ND	50	μg/L	5	6/2/2012 5:07:22 AM
Carbon disulfide	ND	50	μg/L	5	6/2/2012 5:07:22 AM
Carbon Tetrachloride	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Chlorobenzene	ND	5.0	μg/L μg/L	5	6/2/2012 5:07:22 AM
Chloroethane					6/2/2012 5:07:22 AM
	ND	10	μg/L	5	
Chloroform	ND	5.0	μg/L "	5	6/2/2012 5:07:22 AM
Chloromethane	ND	15	μg/L	5	6/2/2012 5:07:22 AM
2-Chlorotoluene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
4-Chlorotoluene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
cis-1,2-DCE	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
cis-1,3-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2-Dibromo-3-chloropropane	ND	10	μg/L	5	6/2/2012 5:07:22 AM
Dibromochloromethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Dibromomethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,3-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,4-Dichlorobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Dichlorodifluoromethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1-Dichloroethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1-Dichloroethene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2-Dichloropropane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc. Client Sample ID: MW-09

 Project:
 Enersource
 Collection Date: 5/25/2012 1:31:00 PM

 Lab ID:
 1205B40-006
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
2,2-Dichloropropane	ND	10	μg/L	5	6/2/2012 5:07:22 AM
1,1-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Hexachlorobutadiene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
2-Hexanone	ND	50	μg/L	5	6/2/2012 5:07:22 AM
Isopropylbenzene	18	5.0	μg/L	5	6/2/2012 5:07:22 AM
4-Isopropyltoluene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
4-Methyl-2-pentanone	ND	50	μg/L	5	6/2/2012 5:07:22 AM
Methylene Chloride	ND	15	μg/L	5	6/2/2012 5:07:22 AM
n-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
n-Propylbenzene	15	5.0	μg/L	5	6/2/2012 5:07:22 AM
sec-Butylbenzene	5.8	5.0	μg/L	5	6/2/2012 5:07:22 AM
Styrene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
tert-Butylbenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1,1,2-Tetrachloroethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1,2,2-Tetrachloroethane	ND	10	μg/L	5	6/2/2012 5:07:22 AM
Tetrachloroethene (PCE)	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
trans-1,2-DCE	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
trans-1,3-Dichloropropene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2,3-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2,4-Trichlorobenzene	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1,1-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,1,2-Trichloroethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Trichloroethene (TCE)	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Trichlorofluoromethane	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
1,2,3-Trichloropropane	ND	10	μg/L	5	6/2/2012 5:07:22 AM
Vinyl chloride	ND	5.0	μg/L	5	6/2/2012 5:07:22 AM
Xylenes, Total	100	7.5	μg/L	5	6/2/2012 5:07:22 AM
Surr: 1,2-Dichloroethane-d4	94.7	70-130	%REC	5	6/2/2012 5:07:22 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%REC	5	6/2/2012 5:07:22 AM
Surr: Dibromofluoromethane	98.8	69.8-130	%REC	5	6/2/2012 5:07:22 AM
Surr: Toluene-d8	96.8	70-130	%REC	5	6/2/2012 5:07:22 AM
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst: SNV
Total Dissolved Solids	15900	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc. Client Sample ID: MW-11

 Project:
 Enersource
 Collection Date: 5/25/2012 9:43:00 AM

 Lab ID:
 1205B40-007
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 4:11:31 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	3500	250	mg/L	500	6/4/2012 7:26:51 PM
EPA METHOD 8260B: VOLATILES			9		Analyst: RAA
Benzene	40	1.0	μg/L	1	6/2/2012 6:03:27 AM
Toluene	14	1.0	μg/L	1	6/2/2012 6:03:27 AM
Ethylbenzene	27	1.0	μg/L	1	6/2/2012 6:03:27 AM
	ND	1.0	· -	1	6/2/2012 6:03:27 AM
Methyl tert-butyl ether (MTBE)			μg/L		
1,2,4-Trimethylbenzene	41	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,3,5-Trimethylbenzene	11	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2-Dichloroethane (EDC)	34	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Naphthalene	8.5	2.0	μg/L	1	6/2/2012 6:03:27 AM
1-Methylnaphthalene	15	4.0	μg/L	1	6/2/2012 6:03:27 AM
2-Methylnaphthalene	11	4.0	μg/L	1	6/2/2012 6:03:27 AM
Acetone	ND	10	μg/L	1	6/2/2012 6:03:27 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 6:03:27 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 6:03:27 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 6:03:27 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 6:03:27 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 6:03:27 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 6:03:27 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Dibromomethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: MW-11

**Project:** Enersource
 Collection Date: 5/25/2012 9:43:00 AM

 **Lab ID:** 1205B40-007
 Matrix: AQUEOUS
 Received Date: 5/30/2012 9:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 6:03:27 AM
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 6:03:27 AM
Isopropylbenzene	3.3	1.0	μg/L	1	6/2/2012 6:03:27 AM
4-Isopropyltoluene	1.1	1.0	μg/L	1	6/2/2012 6:03:27 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 6:03:27 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 6:03:27 AM
n-Butylbenzene	1.6	1.0	μg/L	1	6/2/2012 6:03:27 AM
n-Propylbenzene	5.1	1.0	μg/L	1	6/2/2012 6:03:27 AM
sec-Butylbenzene	1.9	1.0	μg/L	1	6/2/2012 6:03:27 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 6:03:27 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 6:03:27 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 6:03:27 AM
Xylenes, Total	98	1.5	μg/L	1	6/2/2012 6:03:27 AM
Surr: 1,2-Dichloroethane-d4	95.2	70-130	%REC	1	6/2/2012 6:03:27 AM
Surr: 4-Bromofluorobenzene	97.3	70-130	%REC	1	6/2/2012 6:03:27 AM
Surr: Dibromofluoromethane	105	69.8-130	%REC	1	6/2/2012 6:03:27 AM
Surr: Toluene-d8	94.0	70-130	%REC	1	6/2/2012 6:03:27 AM
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst: SNV
Total Dissolved Solids	7970	20.0	mg/L	1	6/1/2012 2:36:00 PM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 6/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

**Project:** Enersource Collection Date:

**Lab ID:** 1205B40-008 **Matrix:** TRIP BLANK **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed
EPA METHOD 8011/504.1: EDB					Analyst: <b>LRW</b>
1,2-Dibromoethane	ND	0.010	μg/L	1	6/4/2012 4:36:40 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Toluene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Ethylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Naphthalene	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM
1-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 6:31:44 AM
2-Methylnaphthalene	ND	4.0	μg/L	1	6/2/2012 6:31:44 AM
Acetone	ND	10	μg/L	1	6/2/2012 6:31:44 AM
Bromobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Bromodichloromethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Bromoform	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Bromomethane	ND	3.0	μg/L	1	6/2/2012 6:31:44 AM
2-Butanone	ND	10	μg/L	1	6/2/2012 6:31:44 AM
Carbon disulfide	ND	10	μg/L	1	6/2/2012 6:31:44 AM
Carbon Tetrachloride	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Chlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Chloroethane	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM
Chloroform	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Chloromethane	ND	3.0	μg/L	1	6/2/2012 6:31:44 AM
2-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
4-Chlorotoluene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
cis-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM
Dibromochloromethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Dibromomethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,4-Dichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Dichlorodifluoromethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1-Dichloroethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1-Dichloroethene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,3-Dichloropropane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
2,2-Dichloropropane	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2012

CLIENT: Intera, Inc.

Client Sample ID: Trip Blank

Project: Enersource Collection Date:

**Lab ID:** 1205B40-008 **Matrix:** TRIP BLANK **Received Date:** 5/30/2012 9:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Hexachlorobutadiene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
2-Hexanone	ND	10	μg/L	1	6/2/2012 6:31:44 AM
Isopropylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
4-Isopropyltoluene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
4-Methyl-2-pentanone	ND	10	μg/L	1	6/2/2012 6:31:44 AM
Methylene Chloride	ND	3.0	μg/L	1	6/2/2012 6:31:44 AM
n-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
n-Propylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
sec-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Styrene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
tert-Butylbenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
trans-1,2-DCE	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1,1-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,1,2-Trichloroethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Trichloroethene (TCE)	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Trichlorofluoromethane	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
1,2,3-Trichloropropane	ND	2.0	μg/L	1	6/2/2012 6:31:44 AM
Vinyl chloride	ND	1.0	μg/L	1	6/2/2012 6:31:44 AM
Xylenes, Total	ND	1.5	μg/L	1	6/2/2012 6:31:44 AM
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%REC	1	6/2/2012 6:31:44 AM
Surr: 4-Bromofluorobenzene	98.6	70-130	%REC	1	6/2/2012 6:31:44 AM
Surr: Dibromofluoromethane	101	69.8-130	%REC	1	6/2/2012 6:31:44 AM
Surr: Toluene-d8	92.8	70-130	%REC	1	6/2/2012 6:31:44 AM

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

4.8

0.50

5.000

WO#: **1205B40** 

11-Jun-12

Client:		Intera, Inc.										
Project:		Enersource										
Sample ID	МВ		SampTy	oe: M	BLK	Tes	tCode: <b>I</b>	EPA Method	300.0: Anions	3		
Client ID:	PBW		Batch I	D: <b>R</b> 3	3204	F	RunNo:	3204				
Prep Date:		А	nalysis Da	te: <b>6</b>	/4/2012	;	SeqNo:	88861	Units: mg/L			
Analyte Chloride			Result ND	PQL 0.50		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID	LCS		SampTy	oe: <b>L(</b>	cs	Tes	tCode:	EPA Method	300.0: Anions	<u> </u>		
Client ID:	LCSW		Batch I	D: <b>R</b> 3	3204	F	RunNo:	3204				
Prep Date:		А	nalysis Da	te: 6	/4/2012	;	SeqNo:	88862	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			4.7	0.50	5.000	0	93.1	90	110			
Sample ID	МВ		SampTy	ре: <b>М</b>	BLK	Tes	tCode:	EPA Method	300.0: Anions	5		
Client ID:	PBW		Batch I	D: <b>R</b> 3	3223	ſ	RunNo:	3223				
Prep Date:		А	nalysis Da	te: 6	/5/2012	;	SeqNo:	89301	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride			ND	0.50								
Sample ID	LCS		SampTy	oe: <b>L(</b>	cs	Tes	tCode:	EPA Method	300.0: Anions	5		
Client ID:	LCSW		Batch I	D: <b>R</b> 3	3223	F	RunNo:	3223				
Prep Date:		А	nalysis Da	te: 6	/5/2012	;	SeqNo:	89302	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

95.0

90

110

#### Qualifiers:

Chloride

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2220 SampType: MBLK TestCode: EPA Method 8011/504.1: EDB

Client ID: PBW Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88089 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

1,2-Dibromoethane ND 0.010

Sample ID LCS-2220 SampType: LCS TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSW Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88093 Units: μg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

1,2-Dibromoethane 0.089 0.010 0.1000 0 89.0 70 130

Sample ID LCSD-2220 SampType: LCSD TestCode: EPA Method 8011/504.1: EDB

Client ID: LCSS02 Batch ID: 2220 RunNo: 3181

Prep Date: 6/4/2012 Analysis Date: 6/4/2012 SeqNo: 88094 Units: μg/L

%REC Result **PQL** SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Analyte LowLimit 1.2-Dibromoethane 0.075 0.010 0.1000 0 75.0 70 130 17.1

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B40

11-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID 5ml-rb TestCode: EPA Method 8260B: VOLATILES SampType: MBLK

Client ID: PBW	Batch	h ID: <b>R3</b>	155	RunNo: <b>3155</b>							
Prep Date:	Analysis D	)ate: 6/	1/2012	S	SeqNo: 87	7441	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	3.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	3.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									
cis-1,3-Dichloropropene	ND	1.0									
1,2-Dibromo-3-chloropropane	ND	2.0									
Dibromochloromethane	ND	1.0									
Dibromomethane	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Dichlorodifluoromethane	ND	1.0									
1,1-Dichloroethane	ND	1.0									
1,1-Dichloroethene	ND	1.0									
1,2-Dichloropropane	ND	1.0									
1,3-Dichloropropane	ND	1.0									
2,2-Dichloropropane	ND	2.0									
1,1-Dichloropropene	ND	1.0									
Hexachlorobutadiene	ND	1.0									
-		-									

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- J
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Reporting Detection Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: <b>R3</b>	155	R	RunNo: 3	155				
Prep Date:	Analysis D	oate: 6/	1/2012	SeqNo: <b>87441</b>			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.8	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Sample ID 100ng Ics	SampType: LCS TestCode: EPA Method 8260B: VOLATILES									
Client ID: LCSW	Batch	n ID: <b>R3</b>	155	F	RunNo: 3	155				
Prep Date:	Analysis D	oate: 6/	1/2012	8	SeqNo: 87445 Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.9	84.1	126			
Toluene	19	1.0	20.00	0	92.6	80	120			
Chlorobenzene	19	1.0	20.00	0	95.3	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	99.7	83	130			
Trichloroethene (TCE)	18	1.0	20.00	0	91.2	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.3	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		98.2	70	130			

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B40

11-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID 100ng lcs TestCode: EPA Method 8260B: VOLATILES SampType: LCS

Client ID: LCSW RunNo: **3155** Batch ID: R3155

Prep Date: SeqNo: 87445 Analysis Date: 6/1/2012 Units: µg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Dibromofluoromethane 10 10.00 99.6 69.8 130 Surr: Toluene-d8 9.7 10.00 97.1 70 130

Sample ID b8	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	n ID: R3	155	F	RunNo: 3	155				
Prep Date:	Analysis D	ate: 6/	1/2012	\$	SeqNo: 8	7481	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

J

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID b8 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: **PBW** Batch ID: R3155 RunNo: 3155 Analysis Date: 6/1/2012 Prep Date: SeqNo: 87481 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Dichlorodifluoromethane ND 1.0 ND 1,1-Dichloroethane 1.0 ND 1,1-Dichloroethene 1.0 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.0 2,2-Dichloropropane ND 2.0 1,1-Dichloropropene ND 1.0 Hexachlorobutadiene ND 1.0 2-Hexanone ND 10 ND Isopropylbenzene 1.0 4-Isopropyltoluene ND 1.0 ND 10 4-Methyl-2-pentanone Methylene Chloride ND 3.0 n-Butylbenzene ND 1.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 ND 1.0 Styrene tert-Butylbenzene ND 1.0 1,1,1,2-Tetrachloroethane ND 1.0 1.1.2.2-Tetrachloroethane ND 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 ND trans-1,3-Dichloropropene 1.0 1,2,3-Trichlorobenzene ND 1.0 1,2,4-Trichlorobenzene ND 1.0 1.1.1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0 Vinyl chloride ND 1.0 Xylenes, Total ND 1.5 Surr: 1.2-Dichloroethane-d4 9.4 10.00 93.7 70 130 Surr: 4-Bromofluorobenzene 10 10.00 102 70 130 Surr: Dibromofluoromethane 10 10.00 99.7 69.8 130 Surr: Toluene-d8 9.4 10.00 94.2 70 130

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Batch ID: R3155

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID b13

Client ID: PBW

Sample ID 100ng lcs2	SampType: LCS TestCode: EPA Method 8260B: VOLATILES									
Client ID: LCSW	Batch	h ID: <b>R3</b>	155	R	RunNo: 3	155				
Prep Date:	Analysis D	)ate: <b>6/</b>	1/2012	S	SeqNo: 87483 Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.7	84.1	126			
Toluene	18	1.0	20.00	0	88.4	80	120			
Chlorobenzene	18	1.0	20.00	0	89.0	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	97.2	83	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.2	76.2	119			
Surr: 1,2-Dichloroethane-d4	8.8		10.00		88.2	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.7	70	130			
Surr: Dibromofluoromethane	10		10.00		103	69.8	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

TestCode: EPA Method 8260B: VOLATILES

RunNo: 3155

Prep Date:	Analysis D	Analysis Date: 6/2/2012			SeqNo: 8	7507	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B40

11-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID b13 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES PBW Client ID: Batch ID: R3155 RunNo: 3155 Analysis Date: 6/2/2012 Prep Date: SeqNo: 87507 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual cis-1,3-Dichloropropene ND 1.0 ND 1,2-Dibromo-3-chloropropane 2.0 ND Dibromochloromethane 1.0 Dibromomethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 Dichlorodifluoromethane ND 1.0 1,1-Dichloroethane ND 1.0 ND 1,1-Dichloroethene 1.0 1,2-Dichloropropane ND 1.0 ND 1.0 1,3-Dichloropropane 2,2-Dichloropropane ND 2.0 1,1-Dichloropropene ND 1.0 Hexachlorobutadiene ND 1.0 2-Hexanone ND 10 Isopropylbenzene ND 1.0 4-Isopropyltoluene ND 1.0 4-Methyl-2-pentanone ND 10 Methylene Chloride ND 3.0 n-Butylbenzene ND 1.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 Styrene ND 1.0 tert-Butylbenzene ND 1.0 1.1.1.2-Tetrachloroethane ND 1.0 1,1,2,2-Tetrachloroethane ND 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 ND trans-1,3-Dichloropropene 1.0 ND 1.2.3-Trichlorobenzene 1.0 1,2,4-Trichlorobenzene ND 1.0 1.1.1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0 Vinyl chloride ND 1.0 ND 1.5 Xylenes, Total 9.3 10.00 93.4 70 130 Surr: 1,2-Dichloroethane-d4 70 10.00 98.5 130 Surr: 4-Bromofluorobenzene 9.8

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

T Analyte detected below quantitation limits RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 1205B40

11-Jun-12

**Client:** Intera, Inc. **Project:** Enersource

Sample ID b13 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: PBW Batch ID: R3155 RunNo: 3155

Prep Date: Analysis Date: 6/2/2012 SeqNo: 87507 Units: µg/L

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: Dibromofluoromethane 100 69.8 10 10.00 130 Surr: Toluene-d8 9.5 10.00 94.9 70 130

Sample ID 100ng Ics3 SampType: LCS TestCode: EPA Method 8260B: VOLATILES Client ID: LCSW Batch ID: R3155 RunNo: 3155 Prep Date: Analysis Date: 6/2/2012 SeqNo: 87508 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 19 1.0 20.00 0 94.1 84.1 126 0 84.7 Toluene 17 20.00 80 120 1.0 Chlorobenzene 18 1.0 20.00 0 88.9 70 130 20 20.00 0 97.7 1,1-Dichloroethene 1.0 83 130 Trichloroethene (TCE) 17 20.00 85.5 76.2 119 Surr: 1,2-Dichloroethane-d4 9.2 91.6 10.00 70 130 10 Surr: 4-Bromofluorobenzene 10.00 102 70 130 10 Surr: Dibromofluoromethane 10.00 101 69.8 130 Surr: Toluene-d8 9.4 10.00 93.8 70 130

TestCode: EPA Method 8260B: VOLATILES Sample ID 5ml-rb SampType: MBLK Client ID: PBW Batch ID: R3190 RunNo: 3190 Prep Date: Analysis Date: 6/4/2012 SeqNo: 88240 Units: µg/L

'	,				•					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

T

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 26 of 29

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.

Project: Enersource

Sample ID 5ml-rb

		71								
Client ID: PBW	Batch	n ID: <b>R3</b>	190	F	RunNo: 3	190				
Prep Date:	Analysis D	Date: <b>6/</b>	4/2012	9	SeqNo: 8	8240	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	1.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
, ,	–									

TestCode: EPA Method 8260B: VOLATILES

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 27 of 29

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID 5ml-rb	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	1D: <b>R3</b>	190	R	tunNo: 3	190					
Prep Date:	Analysis D	ate: <b>6/</b>	4/2012	S	eqNo: 8	8240	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Trichloroethene (TCE)	ND	1.0									
Trichlorofluoromethane	ND	1.0									
1,2,3-Trichloropropane	ND	2.0									
Vinyl chloride	ND	1.0									
Xylenes, Total	ND	1.5									
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.6	70	130				
Surr: 4-Bromofluorobenzene	9.9		10.00		99.2	70	130				
Surr: Dibromofluoromethane	10		10.00		102	69.8	130				
Surr: Toluene-d8	9.5		10.00		94.9	70	130				

Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	n ID: <b>R3</b>	190	F	RunNo: 3	190				
Prep Date:	Analysis D	oate: 6/	4/2012	S	SeqNo: 8	8242	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.0	84.1	126			
Toluene	18	1.0	20.00	0	90.0	80	120			
Chlorobenzene	19	1.0	20.00	0	92.5	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	100	83	130			
Trichloroethene (TCE)	18	1.0	20.00	0	92.5	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		101	69.8	130			
Surr: Toluene-d8	9.6		10.00		95.9	70	130			

<sup>\*/</sup>X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B40** 

11-Jun-12

Client: Intera, Inc.
Project: Enersource

Sample ID MB-2165 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87223 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-2165 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 2165 RunNo: 3158

Prep Date: 5/30/2012 Analysis Date: 6/1/2012 SeqNo: 87224 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 8.000 101 80 120

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 29 of 29



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410;

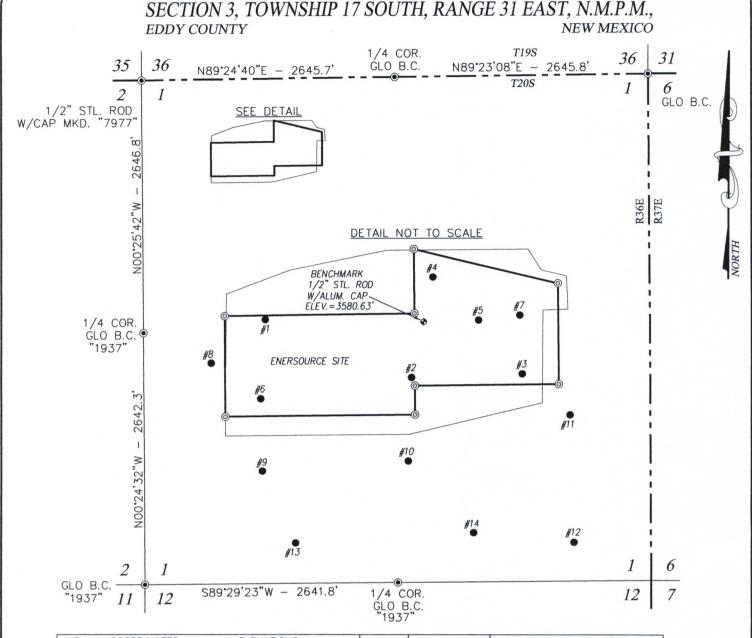
# Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: INT	w	ork Order Number:	1205B40	
Received by/date: LM	05/30/12	<del>-</del> · · ·		
Logged By: Michelle Garcia	5/30/2012 9:00:00 AM	Mi	itelle Garnes	
Completed By: Michelle Garcla	5/30/2012 10:08:58 AM	mi	irutto Ganua) irutto Ganua)	
Reviewed By:	_ 05ka/2		•	
Chain of Custody	9 9 9 9 1 2			
1. Were seals intact?		Yes 🗌 No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗹 No 🗌	Not Present	
3. How was the sample delivered?		<u>FedEx</u>		
<u>Log In</u>				
4. Coolers are present? (see 19. for o	cooler specific information)	Yes 🗹 No 🗌	NA $\square$	
5. Was an attempt made to cool the s	eamples?	Yes 🗹 No 🗌	NA 🗌	·
6. Were all samples received at a ten	operature of >0° C to 6.0°C	Yes ☑ No □	NA 🗔	
7. Sample(s) in proper container(s)?		Yes ✔ No 🗆		
8. Sufficient sample volume for indica	ted test(s)?	Yes 🗹 No 🗌		
9. Are samples (except VOA and ON	G) properly preserved?	Yes 🗹 No 🗌		
10. Was preservative added to bottles?	?	Yes 🗌 No 🗹	NA $\square$	
11. VOA vials have zero headspace?		Yes 🗌 No 🗌	No VOA Vials 🗹	
12. Were any sample containers receive	ved broken?	Yes 🗆 No 🗸	[	
<ol> <li>Does paperwork match bottle label (Note discrepancies on chain of cur</li> </ol>		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 reque	ested?	Yes 🗹 No 🗌	Adjusted?	
16. Were all holding times able to be m (if no, notify customer for authoriza)		Yes 🗹 No 🗌		
Special Handling (if applicable			Checked by	
17. Was client notified of all discrepand	_	Yes 🗌 No 🗌	na 🗹	
Person Notified:	Date:			
By Whom:	Via:	eMail Phone	☐ Fax ☐ In Person	
Regarding:	111111111111111111111111111111111111111			
Client Instructions:				
18. Additional remarks:				
<u>.</u>				
19. Cooler Information	on   Societate   Section   Societate	olData I ou	an. i	
Cooler No Temp °C Conditi 1 1.0 Good	on Seal Intact Seal No	eal Date Signe	a sy	
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Chain-of-Custody Recol Client: wtere, lim.  Mailing Address: Dr. f. L.  Phone #: 505.246.1600  email or Fax#: Jgalemare @ intera.  OA/OC Package:  Acreditation  XNELAP   Other  Acreditation  XNELAP   Other  24/12   1345   Aq   mw-09  25/12   1715   Aq   mw-09  25/12   1715   Aq   mw-09  25/12   1715   Aq   mw-09  25/12   1718   Aq   mw-09  25/12   173   Aq   mw-09  25/12   1718   Aq   mw-09  25/12   170   Aq   mw-09  25/12   170   Aq   mw-09  25/12   1718   Aq   mw-09  25/13	ā						S	datio	,		  st											ŀ		ì		lay Be
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Chain-of-Custody Client: Mtxc, Inc.  Mailing Address: Dr. ft. ft.  Phone #: 505.240.1000  email or Fax#: Jgalemare @ Level 4  Accreditation  XNELAP  Other  Accreditation  XNELAP  Other  Date  Time  Matrix Sample  23/12- 1715  AR  mw-0  23/12- 1745  AR  mw-0  23/12- 1745  AR  mw-0  25/12- 1745  AR  mw-0	Re						~te	(Full			⊩ &		0	4	١٨		) <del>9</del>		<u>ح</u>							ironme
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Client: Mtc., Im.  Client: Mtc., Im.  Mailing Address: Bu. file  Phone #: 505.246  CAVOC Package:  Acreditation  SANELAP Other  SAI2 1715 AQ 1  SAI2 1718 AQ 1	ţ			\_° <u>`</u>		٥	٥٦	Lev			Sar	<u> </u>	w.	N.W.	3	Š	٤	W.W	2	_				; ;	   <del> </del>	to H
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# APPENDIX G 2012 Geodetic Survey Report



WELL MW #1	586267.1 N 814178.7 E	ELEVATIONS  NATURAL GROUND - 3580.40' TOP OF PVC - 3582.43'	MW #8	586116.1 N 813990.6 E	NATURAL GROUND - 3580.90' TOP OF PVC - 3584.11' TOP OF CONCRETE - 3581.23'
		TOP OF CONCRETE - 3580.69' NATURAL GROUND - 3580.00'	MW #9	585739.6 N 814168.4 E	NATURAL GROUND - 3579.22' TOP OF PVC - 3582.21'
MW #2	586065.4 N 814687.7 E	TOP OF PVC - 3582.94' TOP OF CONCRETE - 3580.36'			TOP OF CONCRETE - 3579.53'  NATURAL GROUND - 3577.01'
MW #3	586077.6 N 815072.1 E	NATURAL GROUND - 3578.84' TOP OF PVC - 3581.84'	MW #10	585774.3 N 814676.1 E	TOP OF PVC - 3580.23' TOP OF CONCRETE - 3577.31'
	586414.9 N	TOP OF CONCRETE - 3579.18'  NATURAL GROUND - 3581.10'	MW #11	585935.7 N 815238.7 E	NATURAL GROUND - 3577.75' TOP OF PVC - 3580.91'
MW #4	814761.8 E	TOP OF PVC - 3583.33' TOP OF CONCRETE - 3581.43'		585489.6 N	TOP OF CONCRETE - 3577.96'  NATURAL GROUND - 3575.73'
MW #5	586264.3 N 814920.2 E	NATURAL GROUND - 3580.18' TOP OF PVC - 3582.10'	MW #12	815252.4 E	TOP OF PVC - 3578.81' TOP OF CONCRETE - 3576.17'
MAN NG	585992.1 N	TOP OF CONCRETE - 3580.54'  NATURAL GROUND - 3579.35'	MW #13	585487.1 N 814284.5 E	NATURAL GROUND — 3577.04' TOP OF PVC — 3579.95' TOP OF CONCRETE — 3577.35'
MW #6	814162.5 E	TOP OF PVC - 3582.48' TOP OF CONCRETE - 3579.63'	NANA #4 4	585523.1 N	NATURAL GROUND - 3575.99'
MW #7	586281.5 N 815063.6 E	NATURAL GROUND - 3579.02' TOP OF PVC - 3582.14'	MW #14	814903.3 E	TOP OF PVC - 3578.82' TOP OF CONCRETE - 3576.32'
		TOP OF CONCRETE - 3579.28'	1	EGEND:	

## **NOTE**

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

06/26/2012 DATE:

PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (575) 393-3117 www.jwsc.biz

- DENOTES SET BENCHMARK, 1/2" REBAR

- DENOTES FOUND 1/2" STL ROD W/CAP MKD. "JWSC P.S. 12641" UNLESS NOTED OTHERWISE

DENOTES SET 1/2" REBAR W/YELLOW CAP MKD. #12641

- DENOTES MONITOR WELLS .

1000 1000 2000 Feet HHHHH Scale: 1"=1000'

# INTERA INCORPORATED

SURVEY TO LOCATE MONITOR WELLS IN SECTION 1, TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 5/30/12 CAD Date: 6/22/12 Drawn By: ACR W.O. No.: 12110964 Rel. W.O.: 09.11.0563 Sheet 1 of 1

# Appendix H LNAPL Bail Down/Recovery Test



EPA, 1996: How to effectively Recover Free Product at Leaking UST Sites

MW-03: Diameter: 4.0 inches

radius: 2.0 inches : 0,166 feet

1. Maximum LNAPL thickness= 1.82 feet

2.80% of maximum = 0.8 x 1.82= 1.46 feet ~

3. Time corresponding to 80% recovery. Interpolated from Site data = 22 hrs and 15 min = 1335 mins.

4. Compute gallonsper foot of LNAPL thickness in well

(3.14) (0.166ft)2 (7.48 gal) = 0.65 gal/ft~

5 Compute average recovery rate to 80% recovery

Rev.	Orig.	Date	Chkd.	Date	Client/Project: CD: Enersour CL
			JAG	6-27	Subject: LNAPL Baildown Test -MW-03
					Calc. No.: Sht of 2



Huntley, 2000. Analytic Determination of Hydrocarbon Transmissivity from Baildown Tests

Charbeneau, 1999. Free-Product Recovery of Petroleum Hydrocarbon Liquids.

\*K Value From Bouwer and Rice Analysis Using ACTESOLV\*
4 See attached report

K= 2.929 × 10-5 cm/sec

Apply LNAPL "correction" per Huntley, 2000, (1-e)
4 correction accounts for LNAPL density(2)

Using a P=0.78 from Charbeneau, 1999, This is an average Pualue of Gasoline and Diesel@ 15°C.

IN APL Correction factor =  $\frac{1}{1-0.78}$  = 4.55

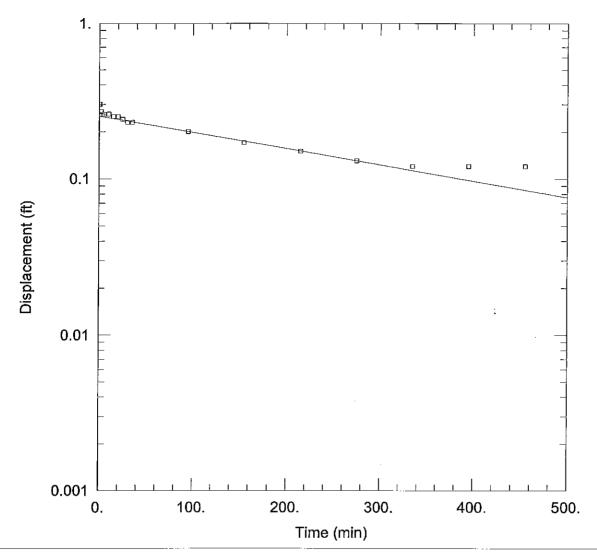
T=K LNAPL & b LNAPL

$$T_{LNAPL} = (1.33 \times 10^{-4} \text{ cm/sec}) + (1.82 \text{ ft}) (\frac{12 \text{ in}}{1 \text{ ft}}) (\frac{2.54 \text{ cm}}{1 \text{ in}}) = 7.4 \times 10^{-3} \text{ cm}^2$$

$$= 0.70 \text{ ft}^2/\text{day}$$

ITRC, Decemember 2009: LNAPL Transmissivity Can be used as a performance metric and can aid in determining appropriate remediation technology.

Rev.	Orig.	Date	Chkd.	Date	Client/Project: <u>OCD: Enersource</u>	
			The	6-27	Subject: LNAPL Baildown Test - MW-03	
						". •
		·			Calc. No.:	_ Sht. 2 of 2



#### **WELL TEST ANALYSIS**

Data Set: S:\...\BowerRice.aqt

Date: 06/22/12

Time: 14:49:42

#### PROJECT INFORMATION

Company: INTERA
Client: Enersource
Test Well: MW-03
Test Date: 5/24/2012

### **AQUIFER DATA**

Saturated Thickness: 1.82 ft

Anisotropy Ratio (Kz/Kr): 0.1

#### WELL DATA (MW-03)

Initial Displacement: 0.3 ft

Total Well Penetration Depth: 45. ft

Casing Radius: 0.167 ft

Static Water Column Height: 1.82 ft

Screen Length: 15. ft Well Radius: 0.167 ft

#### SOLUTION

Aquifer Model: Unconfined

K = 2.929E-5 cm/sec

Solution Method: Bouwer-Rice

y0 = 0.2518 ft

## Appendix Table H-1 LNAPL Bail Down/Recovery Test 2012 Site Investigation Report

## Former Enersource Facility - Monument, Lea County, New Mexico

Date and Time (HH:MM:SS)	Top of Casing Elevation (ft amsl)	Depth to LNAPL (ft btoc)	LNAPL Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)	LNAPL Thickness (ft)	Elapsed Time (minutes)	Recovery Rate (mL/min)	<b>LNAPL</b> Drawdown (ft)
5/24/2012 8:23:00	3581.84	39.02	3542.82	40.84	3541.00	1.82	-	-	-
5/24/2012 9:15:00	3581.84	39.33	3542.51	39.49	3542.35	0.16	0	0.00	0.31
5/24/2012 9:16:00	3581.84	39.32	3542.52	39.49	3542.35	0.17	1	24.70	0.30
5/24/2012 9:17:00	3581.84	39.29	3542.55	39.49	3542.35	0.20	2	49.40	0.27
5/24/2012 9:18:00	3581.84	39.28	3542.56	39.49	3542.35	0.21	3	41.16	0.26
5/24/2012 9:19:00	3581.84	39.28	3542.56	39.49	3542.35	0.21	4	30.87	0.26
5/24/2012 9:20:00	3581.84	39.28	3542.56	39.49	3542.35	0.21	5	24.70	0.26
5/24/2012 9:25:00	3581.84	39.28	3542.56	39.50	3542.34	0.22	10	14.82	0.26
5/24/2012 9:30:00	3581.84	39.27	3542.57	39.52	3542.32	0.25	15	14.82	0.25
5/24/2012 9:35:00	3581.84	39.27	3542.57	39.55	3542.29	0.28	20	14.82	0.25
5/24/2012 9:40:00	3581.84	39.26	3542.58	39.54	3542.30	0.28	25	11.86	0.24
5/24/2012 9:45:00	3581.84	39.25	3542.59	39.56	3542.28	0.31	30	12.35	0.23
5/24/2012 9:50:00	3581.84	39.25	3542.59	39.58	3542.26	0.33	35	12.00	0.23
5/24/2012 10:50:00	3581.84	39.22	3542.62	39.76	3542.08	0.54	95	9.88	0.20
5/24/2012 11:50:00	3581.84	39.19	3542.65	39.86	3541.98	0.67	155	8.13	0.17
5/24/2012 12:50:00	3581.84	39.17	3542.67	39.94	3541.90	0.77	215	7.01	0.15
5/24/2012 13:50:00	3581.84	39.15	3542.69	40.01	3541.83	0.86	275	6.29	0.13
5/24/2012 14:50:00	3581.84	39.14	3542.70	40.08	3541.76	0.94	335	5.75	0.12
5/24/2012 15:50:00	3581.84	39.14	3542.70	40.13	3541.71	0.99	395	5.19	0.12
5/24/2012 16:50:00	3581.84	39.14	3542.70	40.19	3541.65	1.05	455	4.83	0.12
5/24/2012 17:50:00	3581.84	39.14	3542.70	40.23	3541.61	1.09	515	4.46	0.12
5/25/2012 7:30:00	3581.84	39.10	3542.74	40.55	3541.29	1.45	575	5.54	0.08
5/27/2012 8:00:00	3581.84	39.03	3542.81	40.76	3541.08	1.73	4245	0.91	0.01
5/28/2012 17:35:00	3581.84	39.03	3542.81	40.85	3540.99	1.82	6335	0.65	0.01

## Notes:

amsl = above mean sea level btoc = below top of casing

ft = feet

