

Summary of 2012 Subsurface Investigation Activities

13th Street Plaza Site
1770 13th Street – Boulder, Colorado

Prepared by:



Prepared for:



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1.0 INTRODUCTION AND SUMMARY

This report has been prepared by USA Environment, L.P. (USA) on behalf of the City of Boulder – Public Works (City) to summarize results of the recent 2012 subsurface investigation activities (Investigation) performed at the 13th Street Plaza located at 1770 13th Street in Boulder, Colorado (Site). These field activities were performed in accordance with the November 26, 2012 *Work Plan for Subsurface Investigation Field Activities* as prepared by USA and were developed as a means to evaluate subsurface infrastructure and conditions associated with former operation of a manufactured gas plant (MGP) at the Site. The anticipated components and lay-out of the historic infrastructure as inferred from historic documents is depicted on **Figure 1**.

The primary components of the historic infrastructure shown on **Figure 1** generally included the following:

- **Process Facilities** – Those facilities associated with gas generation, including: generators, scrubbers, purifiers and process tanks.
- **Process Oil Tanks** – Tanks used to contain oil in support of combustion to enrich the gas.
- **Relief Holder** – The originally constructed holder and associated Tar Well at the Site which was connected to the process facilities using aboveground gas delivery piping.
- **Main Holder** – The second holder constructed at the Site which connected to the process facilities using underground gas delivery piping.
- **Gas Delivery Piping** – Subsurface piping used to route gas to the Main Holder and from the Main Holder to the general distribution network.

Based on this historic infrastructure, the objectives of the 2012 effort were as follows:

- **Infrastructure Identification** – Verify whether subsurface remnants of the historic manufactured gas plant infrastructure remain in place at the Site.
- **Geophysical Signature** – Identify the degree of correlation that exists between a previous electromagnetic survey and remaining subsurface infrastructure location(s).
- **MGP Process Residuals** – Determine whether MGP process residuals related to the infrastructure investigated (gas delivery piping and Main Holder) remain and whether such impacts may have contributed to groundwater impacts identified by previous monitoring efforts.
- **Removal and Disposal** – Where encountered, provide for the removal and proper off-site disposal of MGP process residuals and impacted infrastructure.

The Investigation was performed on the south and east side of the parking lot at 1770 13th Street, and included identification of portions of the subsurface infrastructure, specifically the

gas delivery piping and the Main Holder. Associated with this subsurface infrastructure, process residuals and soil and groundwater impacts were also identified, evaluated, and managed as appropriate. During the investigative activities, USA excavated and segregated clean and impacted subsurface soils, removed gas delivery piping, evaluated the conditions associated with the former Main Holder foundation, and installed and sampled two (2) additional groundwater monitoring wells at the Site. In addition, residual MGP products that were observed at the Main Holder during the investigation were removed by Tetra Tech at the direction of Public Service of Colorado (PSCO). These field efforts occurred at the Site between November 27, 2012 and December 18, 2012.

The Investigation confirmed that the electromagnetic signatures from the previous geophysical survey correlated well with the location of metallic materials in the shallow subsurface on the east half of the Site. Based on the historic geophysical survey and other historical documents, the primary remaining components of interest yet to be investigated include the process oil tanks, the Relief Holder and the associated Tar Well.

Based on the work performed, the resulting characterization efforts, and prior groundwater sampling, the subsurface infrastructure appears to be responsible for impacts previously noted in groundwater at the Site. Subsequent investigations should similarly seek to identify remaining infrastructure, particularly related to the process oil tanks and Relief Holder, and the location and characteristics of impacted soils and groundwater associated with the former operations.

2.0 SITE HISTORY AND DESCRIPTION

The Site is located in the southwest quarter of Section 30, Township 1 North, Range 70 West of the 6th Principal Meridian at 1770 13th Street in Boulder, Colorado. The west side of the Site is bounded by 13th Street, the north side by a commercial office building and surface lot parking, the east side by 14th Street, and the south side by the Boulder and Left Hand Ditch followed by commercial buildings and a surface parking lot. The approximately 1.5 acre parcel includes the Dushanbe Teahouse (Teahouse) and the 13th Street Plaza (Plaza) on the western half of the parcel, and a paved surface parking lot on the eastern half of the parcel. The reported historic MGP infrastructure is overlain on the 2011 aerial Site image illustrated on **Figure 1**. The 2012 work activities were exclusively performed on the eastern half of the property within the paved surface parking lot, which encompasses an area of approximately 16,000 square feet.

The Site was originally developed in approximately 1902 and was operated as a coal-gas manufacturing plant. The facilities, as originally constructed, provided for gas generation using a conventional coal gas manufacturing process that was later updated to a more efficient and higher quality gas production process using a Carbureted Water Gas (CWG) approach. Various elements of the original plant infrastructure were modified or new elements added over the subsequent decades of operation. The gas plant operations were discontinued in either 1952 or 1954, and by the early 1960s, all aboveground infrastructure had been removed. It appears that the Site was then converted to a parking lot. Construction related to the current configuration of the Site that includes the Teahouse, Plaza, and parking lot was commenced in 1995, with the construction of the Plaza.

In fall 2010, Environmental Resources Management (ERM) completed a limited subsurface investigation at the Site which included drilling, installation and sampling of six (6) groundwater monitoring wells, designated as MW-1 through MW-6. The summary report prepared by ERM for these activities, *Limited Phase II Subsurface Investigation*, dated April 14, 2011, includes soil and groundwater laboratory results which identify subsurface impacts. Groundwater elevations were measured from this monitoring well network on four (4) occasions by ERM between 2010 and 2012 to confirm the direction of groundwater flow. These efforts have provided a reasonable baseline of data that was used to support locating the supplemental monitoring wells installed as part of the program outlined herein.

To support an understanding of the potential subsurface infrastructure, the results of a March 1997 Electro-Magnetic (E-M) geophysical survey performed by RDS Exploration Consultants (RDS), a subcontractor of Maxim, within subsurface areas of the current Teahouse and parking areas was evaluated. This survey appeared to confirm subsurface anomalies that were consistent with the reported location of historic MGP infrastructure across much of the Site as shown on **Figure 2** (Maxim, 1997). Based upon a review of historic Site documents, including the 1997 E-M survey and photographs taken during construction of the Teahouse, the Investigation was designed to identify whether the two 12-inch gas delivery pipes and the Main Holder remained and whether process residuals or impacted soils or groundwater in these locations were present. The reach of piping (east of the Teahouse) and the Main Holder areas were selected as the focus of the effort due to their presence within reasonably accessible areas of the parking lot at 1770 13th Street. Therefore, the work performed incorporated two

primary components, including: 1) a targeted excavation to evaluate subsurface conditions and whether gas delivery piping and the Main Holder were abandoned in place and; 2) drilling and installation of two (2) additional groundwater monitoring wells to further delineate groundwater conditions beneath the Site downgradient of key potential infrastructure components.

The two 12-inch diameter pipes were utilized during MGP plant operations to transport the gas to and from the Process Area during operation of the MGP facility, and the Main Holder was utilized to store gas product between the time of generation and usage. Based on the E-M signature obtained during the geophysical survey, it appeared that the gas delivery piping and the Main Holder were likely to be present within the subsurface. Therefore, initial excavation activities focused on locating, evaluating, and removing each of the two (2) 12-inch inside diameter cast iron gas conveyance pipes (to be referred as the 12-inch pipes) from east of the Teahouse along the southern edge of the parking lot to their point of connection with the Main Holder. Consistent with the stated objective, this effort focused on identifying whether the piping was intact, whether piping contained process residuals, the condition of the Main Holder (construction and dimensions), and whether process residuals associated with the Main Holder were present.

Prior to mobilization to the Site, USA acquired a permit from the City of Boulder – Planning and Development Services office and submitted a Notice of Intent to Construct Monitoring Hole(s) to the Colorado Division of Water Resources to complete the proposed on-site investigation. Installation of Best Management Practices (BMPs) erosion control devices such as a straw wattle network around the work area and plastic barriers at the storm drain were implemented prior to work being conducted. Public utility locates were also completed to identify active utility lines within the proposed work area prior to work being conducted.

The targeted excavation provided for removal of the 12-inch gas delivery pipes within the excavation limits from the east side of the Teahouse to the Main Holder. As part of these efforts, the excavation was evaluated to determine whether the piping served as a pathway for releases that could be impacting groundwater quality. During the evaluation it was observed that the pipes contained clear (aqueous) fluid which appeared to have entered through the pipe ends located at the Main Holder and backflowed into the pipes. This direction was inferred as the pipes followed a well-defined slope downward, as reflected on the pipe survey at Attachment C, from the Teahouse to their point-of-entry to the Main Holder. Several pipe joints evidenced that prior leakage of fluid had occurred based on the oxidized iron in the native soils directly beneath these joints. Further, within direct proximity of most of the joints, confined areas of odorous and often stained soils were identified. These soils contained both volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) indicative of MGP process wastes (VOCs/SVOCs) and were excavated for off-site disposal. Fluid within the pipes also contained dissolved-phase VOCs and SVOCs, while there was only a limited, thin veneer of residue across the inner surface of the pipe.

In addition to the piping, the targeted excavation also allowed for identification of the conditions at the connection between the piping and Main Holder. The pipes entered the Main Holder through a pipe chase; which during actual operation of the facility provided access, but

also accumulated liquids that were formed due to condensation of moisture from the gas stream. The pipes were removed to the point of entry to the pipe chase and the ends grouted to prevent any backflow of accumulated fluid from the pipe chase. Given the unknowns about the size of the pipe chase, the source and quality of the pipe chase contents, and the effect of its removal on static conditions, the City elected not to pump out the pipe chase contents until next steps had been determined for the Site. However, PSCo wanted to pump out the pipe chase, and the City allowed Xcel and its consultants access to do so. Both parties consulted with CDPHE on these developments. These residual MGP-generated process fluids (combined water, oil, and sludge) were subject to sampling, characterization, and removal by PSCo. Following removal of the accumulated liquids, the pipe chase was temporarily backfilled with flow-fill by Tetra Tech at the direction of PSCo.

3.0 SUBSURFACE INVESTIGATION

As noted, the objectives of the Investigation program were to provide for the following:

- Verify whether subsurface remnants of the historic manufactured gas plant infrastructure remain in place at the Site (gas delivery piping and Main Holder).
- Identify the degree of correlation that exists between a previous electromagnetic survey and remaining subsurface infrastructure location(s).
- Determine whether MGP process residuals related to the infrastructure investigated (gas delivery piping and Main Holder) remain and whether such residuals may have contributed to groundwater impacts identified by previous monitoring efforts.
- Where encountered, provide for the removal and proper off-site disposal of MGP process residuals and impacted infrastructure associated with the gas delivery piping and the Main Holder.

A summary of the 2012 Investigation activities and results of the field program are provided in the following sections.

3.1 Soil Excavation Activities

On November 27, 2012, the subsurface investigation activities commenced with excavation along the parallel 12-inch pipe run utilizing a CAT 420E backhoe. Excavation activities were initiated at the edge of the concrete slab approximately 15 feet east of the rear entrance to the Teahouse. A 12- to 15-foot wide trench was opened along the anticipated pipe run to locate the 12-inch gas pipelines, evaluate the subsurface soil conditions, and allow for removal of the piping and any soil impacts noted. The piping was evaluated in sections by removing soil, removing piping, and any impacted soil before progressing east and north to the next section.

The trenching followed the pipeline corridor east and north to its termination at the Main Holder. The trench was advanced along the pipeline alignment to an average depth of 6 to 7 feet bgs. During this excavation, all excavated soils were either stockpiled on-site or where appropriate, were direct loaded to over-the-road trucks for subsequent off-site disposal. In addition, two (2) test pits were advanced to a maximum of 8.5-feet bgs, as shown on Figure 3, approximately coincident with the soil-groundwater interface, to further assess the soil conditions beneath the 12-inch pipes.

Utilizing visual, olfactory, and photo-ionization detector (PID) field screening methods pursuant to the Work Plan, USA's field personnel assessed subsurface impacts associated with the gas delivery piping and the Main Holder. These screening methods were also utilized by field personnel to determine locations where soil samples would be collected and submitted for laboratory analysis. Soil sampling activities are further discussed in Section 4.0. The horizontal limits of the excavation and soil sample locations are illustrated on **Figure 3**.



PHOTO 1 - View to the west showing pipe run excavation, 12-inch pipes, and the east side of the Teahouse.

Soils excavated along the 12-inch pipeline corridor consisted primarily of fill with frequent observations of construction-related debris (bricks, concrete, and wood) from immediately beneath the asphalt to a depth that varied but was typically about 3-feet bgs. Across most of the 12-inch pipeline corridor excavation, a three (3) to six (6) inch thick dark stained layer was found at approximately one (1) foot below the asphalt surface. Once the excavation of the 12-inch pipes headed north and in the direction of the Main Holder, the shallow stained layer increased to up to one and a half (1.5) feet in thickness at the south end of the Main Holder. Beneath these materials, it appeared that soils were mostly native alluvial materials that included silts, sands, gravels, and cobbles.

Impacted soils were observed in several locations beneath the pipelines during excavation and were typically associated with strong VOC/SVOC odors and localized dark gray to black staining. These localized impacts were removed as part of the excavation process. Gray to black stained soil was also noted directly beneath the location where the two (2) 12-inch pipes connect to the concrete pipe chase structure associated with the Main Holder.

At the south end of the Main Holder, both pipes entered a concrete support and sub-grade concrete pipe chase structure, which was observed to be mostly filled with soil and debris. Above the concrete pipe chase, the foundation of the Main Holder was observed, which consisted of 16- to 18-inch thick concrete slab on a sand pad that was located approximately 1.75 feet below the parking lot asphalt surface. Soil and debris observed between the asphalt and the foundation of the Main Holder were stained dark gray to black with VOC/SVOC odors. Additional information regarding the pipe removal and the Main Holder are presented in Section 3.2 and 3.3, respectively.

The surface area of the completed excavation was approximately 1,750 square feet. Approximately 340 yards of impacted soil was excavated and transported for off-site disposal at the Waste Management Denver Arapahoe Disposal Site in Aurora, Colorado. Manifests for disposal of the excavated soils are included in **Attachment A**. Subsequent to excavation activities, clean backfill materials were imported to the Site, placed into the open excavation,

compacted with a sheepsfoot vibratory roller packer unit, and asphalted to match the surface grade.

3.2 Pipe Evaluation and Removal Activities

During the excavation activities, an evaluation was made of the general condition of the 12-inch gas delivery pipes, the integrity of the joints, and whether MGP process residuals had been released from the piping or the joints as could represent a potentially significant source for impacts to groundwater. As these evaluations were performed in sections, the pipe removal activities were performed coincident with soil excavation.

The pipe sections were first exposed using a backhoe and hand tools to allow for visual inspection starting at the back of the Teahouse and moving toward the Main Holder. Pipe sections were uniformly constructed of cast iron with bell and spigot connections, and were located between three (3) and four (4) feet bgs. These pipes were connected with soldered joints and were measured to be approximately 12 feet in length per section. The northernmost pipe within the parallel gas delivery pipe alignment appeared to be delivery pipe from the Process Area to the Main Holder with the southernmost pipe being the outbound gas distribution pipe from the Main Holder to the facility meter for distribution to the community. The pipes exhibited a slight slope which was measured to extend downward from the Process Area to the Main Holder. Also, a previously unidentified approximately 6-inch diameter steel pipe located to the south of the 12-inch pipes was encountered in the excavation, but left in-place. The location of the pipes as encountered, removed, and left in-place are illustrated on **Figure 3**.

The first pipe separation occurred within the outbound gas pipe (south pipe) leading from the Main Holder as it was less likely to be impacted than the adjacent pipe (north pipe). When the joint was detached, approximately 30-gallons of clear fluid was released to the exposed soil surface. This clear fluid was sampled as it flowed from the pipe (identified as fluid sample SPWATER) and was submitted for laboratory analysis. This analysis indicated that the fluid was not hazardous waste and that the total mass of the 30-gallon release contained approximately 0.00079 pounds of benzene, which was far below the reportable quantity of 10 pounds. Laboratory results for the south pipe fluid sample are summarized on **Tables 4** and **5**. Nonetheless, as a precautionary matter, a defined protocol was developed to provide positive recovery of fluid within the remaining reach of piping.

During the first pipe separation, it became evident that the pipe contained a substantial volume of fluid, as a wave-based return period led to periodic pulses of fluid that flowed from the pipe. This wave-based response indicated that the pipe and the Main Holder both functioned as a reservoir to hold fluid.

A trailer-mounted vacuum recovery system was mobilized to evacuate remaining fluid from the pipes prior to further joint separation. Plastic sheeting was placed beneath the pipe joints to form a temporary sump and provide positive capture of any residual fluid contained within the pipes that could be released as the joints were separated. Also, one (1) fluid grab sample was collected from the north pipe (NPWATER) and submitted for laboratory analysis to evaluate the

contents. Laboratory analysis for the north pipe fluid sample indicated that the fluid was not hazardous waste and the results for this sample are summarized on **Tables 4 and 5**.

As the excavation continued along the parallel pipeline corridor from the east side of the Teahouse to the Main Holder area, the 12-inch pipes were sequentially detached at the joints with the use of a backhoe. When a pipe was detached at a bell connection, fluid was captured directly from the pipe with a trailer-mounted vacuum extraction system. Any incidental leakage of fluid from the pipe was contained within a plastic-lined sump for subsequent recovery by the vacuum recovery system. Prior to detaching the pipes, a visual analysis was performed beneath the pipe joints to see if there were discernible historic releases of fluid or MGP process residuals. Specifically, no MGP process residuals were noted coincident with any of the joints. However, as noted previously, several joints appeared to have been subject to the leakage of fluid from the pipes as was evidenced by rust-colored cementation of sand and gravel which was limited to the direct proximity to these joints. The most notable historic leakage was located at the joint in the north delivery pipe located closest to MW-5. In this location the soils beneath the pipe exhibited a distinct MGP-based odor as well as gray staining across a reach of approximately 4-feet of pipe on either side of the joint. As noted previously, soils within these isolated locations were excavated and disposed of off-site.

As each 12-foot section of pipe was disconnected at both ends, the individual pipe sections were lifted out of the excavation with the backhoe and stockpiled for future removal from the Site. Approximately 82 and 95 feet of 12-inch diameter cast iron pipe was removed from the north and south pipe runs, respectively resulting in a total of 177 linear feet of removal. Most of the 12-inch diameter cast iron process pipe removed during the program was recycled at All Recycling Inc. located in Englewood, Colorado. Approximately 30 to 40 feet of the 12-inch diameter pipe was retained by PSCo for further off-site evaluation. The pipes were approximately one-inch thick cast iron and appeared to be in good condition with no full-wall corrosion noted. A weight ticket for the recycled pipe is included in **Attachment A**.

During the pipe removal activities, approximately 920 gallons of impacted fluid was extracted from the pipes and transported off-site for disposal at the Raritan CWT Facility located in Englewood, Colorado. Manifests for disposal of the fluid extracted from the pipes are included in **Attachment A**.



Photo 2 – View to the northeast depicting pipe lifting and removal of northern 12-inch pipe during excavation activities.

The 12-inch pipes were left in-place where they extended beyond the excavation limits, including: underneath the Teahouse dumpster enclosure, where historic plugs were observed in the pipes, and approximately 10 feet south of the concrete pipe chase structure associated with the Main Holder. The ends of the pipes left in-place were sealed with concrete prior to backfilling, as shown in **Photos 3 and 4** below.



Photos 3 and 4 – View showing pipes left in-place and concrete capping the pipe ends at the west end of the excavation (left) and at the Main Holder (right).

3.3 Main Holder Evaluation

Subsurface investigation associated with the piping continued to the Main Holder to examine the conditions where the piping extended into the structure. These excavation activities uncovered remnants of the Main Holder, including a concrete slab at approximately 1.75 feet bgs, which is believed to be the base of the former Main Holder. A test pit was advanced along the southwest edge of the Main Holder slab, which identified that the concrete slab was approximately 18-inches thick and appeared to have been poured over fill material primarily comprised of sand. The 12-inch pipes continued underneath the base of the Main Holder into what appeared to be two (2) separate subsurface concrete pipe chases. The two pipe chase structures were each observed to be partially filled with soil, debris, and an odorous fluid blend of oil, water, and sludge.

Two (2) 15-inch diameter holes were identified in the concrete slab coincident with the locations where the 12-inch pipes entered vertically into the Main Holder. The photograph below shows the concrete slab of the Main Holder, the two (2) 15-inch diameter openings observed on the concrete slab, and a portion of the two (2) concrete pipe chase structures that extend underneath the Main Holder foundation.



PHOTO 5 - View to the west showing the pipe chase and the foundation of the former Main Holder.

A test pit was excavated between the 12-inch pipes and along the concrete support south of the Main Holder to a depth of approximately eight and one-half (8.5) feet below the ground surface (approximately six (6) feet below the top of the concrete pipe chase). This excavation did not extend deep enough to identify the bottom of the concrete support structure. Overall, the evaluation of the Main Holder confirmed that the subsurface infrastructure remains in-place and that the visible concrete appeared to be intact.

3.3.1 Additional Main Holder Related Activities

Tetra Tech, at the direction of PSCo, collected samples of the fluids found inside the Main Holder pipe chases utilizing a peristaltic pump. These samples were subject to analysis for profiling the waste for disposal purposes. USA obtained split samples of this oily substance and submitted a sample for analysis of VOCs and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) by EPA Method 8260B, Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-DRO) by EPA Method 8015, and SVOCs by EPA Method 8270D SIM, plus reactivity, corrosivity and ignitability (RCI). Analytical results are readily indicative of MGP process-derived waste products. Based on the testing, ignitability was reported at 133 degrees Fahrenheit which classified the fluid as a hazardous waste. By EPA standards, a fluid is deemed hazardous if it is ignitable at less than 140 degrees Fahrenheit. USA's split sample results for the Main Holder fluid are summarized on **Tables 4 and 5**.

Subsequently, PSCo directed Tetra Tech to remove the fluid (combined oil, water, and sludge) from the pipe chase structures associated with the Main Holder. To facilitate removal, three (3) holes were cored into the Main Holder concrete pad and a vacuum truck was mobilized to the Site on December 13 and 14, 2012 to extract and dispose of the fluid. Approximately 1,700

gallons of total fluid was extracted from the concrete pipe chases and reportedly transported to a Clean Harbors facility for incineration. Some residual black sludge materials were not recovered from the pipe chases and were left in-place. The concrete pipe chases were then temporarily flow filled with a low density, low compressive strength concrete prior to backfilling activities.

3.4 Drilling and Monitoring Well Construction

On November 29, 2012, USA directed drilling and well installation operations performed by Site Services, Inc. of Golden, Colorado. Groundwater monitoring wells MW-7 and MW-8 were installed to supplement groundwater flow direction data at the Site and to assess groundwater conditions downgradient or adjacent to Relief and Main Holders. **Figure 1** illustrates the locations of monitoring wells MW-7 and MW-8.

3.4.1 Drilling Activities and Well Completion Details

Two (2) 8-inch diameter borings were advanced with a CME-75 drill rig utilizing hollow-stem auger methods to approximately 16 feet bgs. Soil samples were collected at five (5) foot intervals with a 2.5-inch diameter, 24-inch long split-spoon sampler and logged to determine soil classification, plasticity, color, hardness and moisture content. Soils in the borings consisted primarily of silts, sands and sandy-gravels with cobbles and some boulders. Also, one (1) soil sample per boring was selected for laboratory analysis based on visual, olfactory and PID screening, as specified in the Work Plan. Soils sample results are further discussed in Section 4.0. Groundwater was encountered at approximately 8.5-feet bgs in both borings based upon saturation of soil cuttings and downhole measurements after drilling activities were completed.

During the advancement of the boring for MW-7, no apparent impacts were observed in samples or soil cuttings. During the advancement of the boring for MW-8, impacted soils were observed in samples collected at depths between nine (9) and ten (10) feet bgs. The soil sample had strong VOC/SVOC odors with a visible sheen on saturated soil cuttings. Upon completion of the MW-8 boring, an oily fluid substance was observed on the auger and center rod.



Photo 6 – View of the center rod after drilling borehole MW-8 to a depth of 16 feet bgs.

Following the drilling activities, borings MW-7 and MW-8 were completed as two (2) inch diameter groundwater monitoring wells with approximately ten (10) feet of 0.010-inch slotted polyvinyl chloride (PVC) pipe screen and five (5) feet of blank PVC riser pipe. 10/20 grain silica sand was installed within the annulus around the slotted pipe and bentonite was installed to provide a hydraulic seal above the sand interval. Boring logs and well construction logs are included in **Attachment B**.

Following well construction, both monitoring wells were developed by first alternating bailing and surging using appropriately sized bailers and surge blocks. Each well was then purged utilizing a disposable bailer until turbidity was significantly reduced, clarity increased, and water quality parameters (temperature, pH, and conductivity) stabilized to within 10% of the previous purge values. No sheen or VOC/SVOC odors were observed during well development activities at well MW-7. Both a visible sheen and strong odors were noted during well development activities at well MW-8. Groundwater produced during well development was containerized on-site and disposed off-site at the Raritan CWT Facility located in Englewood, Colorado. Well development logs are included in **Attachment B**. In addition, the top of casing of all Site monitoring wells, including MW-7 and MW-8, were surveyed by Flagstaff Surveying, Inc. on December 3, 2012. The surveyors report is included in **Attachment C**.

4.0 SOIL SAMPLING AND RESULTS

Soil samples were collected during excavation activities to evaluate MGP-related impacts in the excavation area and whether impacts associated with the in-place infrastructure or historic MGP operations were present. Utilizing visual, olfactory, and PID field screening methods pursuant to the Work Plan, USA field personnel evaluated subsurface soils and selected soil samples were submitted for laboratory analysis.

Stained soils were observed throughout much of the soil excavation, including most of the 12-inch pipe run and at the Main Holder, and in the soil sample collected from the soil boring advanced for MW-8. A total of six (6) soil samples were collected during the pipe excavation activities (EX-1 through EX-6) at depths ranging from 1.25 feet bgs (EX-6) and 8.5 feet bgs (EX-3). One (1) soil sample from each of the soil borings advanced for MW-7 and MW-8 were also submitted for laboratory analysis. In all, eight (8) soil samples were collected during the 2012 Site subsurface investigation and submitted to Summit Scientific of Golden, Colorado for laboratory analysis of VOCs and TPH-GRO by EPA method 8260B and SVOCs by EPA method 8270D SIM. [NOTE: The sample for EX-1 was analyzed for EPA Method 8270D SCAN, which provides results for additional analytes.] Soil samples collected at EX-3, EX-5 and EX-6 were also analyzed for TPH-DRO by EPA Method 8015. These soil samples were analyzed for TPH-GRO and TPH-DRO to provide additional assessment of the compounds present within the materials encountered. Soil sample results are summarized on **Tables 1** and **2** and illustrated on **Figure 3**. Soil sampling field sheets are included in **Attachment D** and laboratory data reports are included in **Attachment E**.

Soil sample results were compared to the Colorado Department of Public Health and Environment (CDPHE) – Colorado Soil Evaluation Values (CSEV) for screening levels protective of groundwater quality. Five (5) of the (8) eight soil samples submitted for analysis had reported exceedances of the CSEV screening level for naphthalene, and one (1) exceedance of the CSEV screening level for benzene. Naphthalene concentrations in exceedance of the 23 mg/kg CSEV screening level protective of groundwater ranged from 24.0 mg/kg in the soil sample collected at EX-1 to 1,400 mg/kg in the soil sample collected at EX-6. Benzene was reported at 0.18 mg/kg in the soil sample collected at EX-6, in exceedance of the 0.17 mg/kg CSEV screening level protective of groundwater. All other VOC and SVOC analytes were below the CSEV screening levels protective of groundwater quality. [NOTE: Naphthalene was reported under both the laboratory analysis for VOCs by EPA Method 8260B and for SVOCs by EPA Method 8270D SIM and had reported exceedances under both methods. To remain consistent with past reports, only the SVOCs by EPA Method 8270D SIM results will be compared to the CSEV screening level protective of groundwater quality in this report.]

5.0 GROUNDWATER SAMPLING AND RESULTS

The subsurface investigation program included sampling of all groundwater monitoring wells associated with the Site. The groundwater sampling program was designed to update the groundwater quality data collected by ERM in 2010, confirm the groundwater flow direction, and to provide baseline groundwater analysis for newly installed monitoring well locations MW-7 and MW-8. The samples were collected at the six (6) on-site (MW-1, MW-3, MW-5, MW-6, MW-7 and MW-8) and two (2) off-site (MW-2 and MW-4) groundwater monitoring wells. Monitoring well locations are illustrated on **Figure 4**. General sampling procedures and a summary of results are described in this section.

5.1 Groundwater Sampling Procedures

Prior to collecting groundwater samples, depths to groundwater and total well depths were measured at each monitoring well location. A minimum of three casing volumes of groundwater (calculated from total depth of well and depth-to-water measurements) was purged from the subject well by hand bailing prior to collecting groundwater samples. Measurements of pH, temperature, and specific conductivity were obtained subsequent to purging each well casing volume and recorded on field sampling data sheets included in **Attachment F**. After the field parameter measurements stabilized to approximately 10%, groundwater samples were collected. Subsequent to sample collection, down-hole dissolved oxygen (DO) concentrations and oxidation reduction potential (ORP) were measured in all eight (8) monitoring wells.

Groundwater monitoring wells were each sampled using disposable polyethylene bailers to prevent cross-contamination. Clean sample containers (40-milliliter [ml] volatile organic analyte [VOA] vials and 1-liter glass amber bottles) supplied by the analytical laboratory were used to collect samples for subsequent analysis. Sample bottles were then labeled with corresponding date, time and well identification, and subsequently placed in an ice-filled cooler and maintained at approximately 4 degrees Celsius (°C) during transportation to Summit Scientific laboratory in Golden, Colorado. Samples were submitted for analysis of VOCs and TPH-GRO by EPA Method 8260B, TPH-DRO by EPA Method 8015, and SVOCs by EPA Method 8270D SIM. Laboratory data reports are included in **Attachment E**.

Water generated during groundwater sampling, well construction, and well development activities was transferred into Department of Transportation (DOT) approved 55-gallon steel drums and non-hazardous waste labels were placed on the drums. On December 6, 2012, approximately 95 gallons of water generated during field activities were transported for disposal at the Raritan CWT Facility located in Englewood, Colorado. Manifests for the water generated during purging and well development activities are included in **Attachment A**.

5.2 Groundwater Levels

On November 30, 2012, depths to groundwater and total well depths were measured at all eight (8) groundwater monitoring well locations prior to sampling. Groundwater elevations

ranged from 5,329.19 feet above mean sea level (amsl) in monitoring well MW-7 to 5,330.45 feet amsl in monitoring well MW-1. The on-site depth to groundwater ranged between approximately six (6) and 11 feet below the top of casing. Depths to groundwater and groundwater elevations are summarized on **Table 3**. As illustrated on **Figure 4**, the November 2012 groundwater flow direction is to the northeast which is consistent with earlier flow directions. The calculated groundwater gradient between wells MW-1 and MW-7 is approximately 0.006 ft/ft.

In addition, an oil/water interface probe was used to check for the presence of light non-aqueous phase liquid (LNAPL) and/or dense non-aqueous phase liquid (DNAPL). LNAPL/DNAPL were not detected in any of the eight (8) monitoring wells.

5.3 Groundwater Sampling Results

On November 30 and December 3, 2012, groundwater samples were collected from all eight (8) Site monitoring wells. Five (5) of the eight (8) groundwater wells contained VOC and SVOC concentrations above the respective CDPHE Regulation No. 41 – Water Quality Control Commission Basic Standards for Groundwater (Basic Groundwater Standards), effective on January 31, 2013 (CDPHE, 2012). The VOC and SVOC analytes observed in the laboratory reports are consistent with a contaminant signature typically associated with MGP sites. Historic and current groundwater results are presented on **Figure 5**. Laboratory results for groundwater samples collected during 2012 are summarized on **Tables 4** and **5**.

Analysis of the 2012 groundwater samples for VOCs by EPA Method 8260B indicated exceedances of the CDPHE Basic Groundwater Standard for dissolved-phase benzene of 5.0 micrograms per liter ($\mu\text{g/L}$) in monitoring wells MW-3, MW-7 and MW-8 at concentrations of 26 $\mu\text{g/L}$, 28 $\mu\text{g/L}$ and 780 $\mu\text{g/L}$, respectively. Also, the dissolved-phase benzene concentration for the duplicate sample, which was collected at MW-3, was reported at 28 $\mu\text{g/L}$. Dissolved-phase ethylbenzene was detected above the CDPHE Basic Groundwater Standard of 700 $\mu\text{g/L}$ at monitoring well MW-8 with a concentration of 710 $\mu\text{g/L}$. No other dissolved-phase VOCs were reported above the CDPHE Basic Groundwater Standards in other monitoring well locations.

Analysis of the 2012 groundwater samples for SVOCs by EPA Method 8270D SIM indicated certain exceedances of the CDPHE Basic Groundwater Standards. Dissolved-phase naphthalene was detected above the CDPHE Basic Groundwater Standard at four (4) of the eight (8) groundwater monitoring wells sampled during 2012. Dissolved-phase naphthalene in exceedance of the CDPHE Basic Groundwater Standard of 140 $\mu\text{g/L}$ ranged from 184 $\mu\text{g/L}$ in the groundwater collected at MW-6 to 3,950 $\mu\text{g/L}$ in the groundwater collected at MW-8. MW-8 is the only well to contain dissolved-phase SVOCs in addition to naphthalene reported above the CDPHE basic groundwater standards. The current groundwater results are presented on **Figure 5**. [NOTE: As stated in Section 4.0, naphthalene was reported under both the laboratory analysis for VOC by EPA Method 8260B and for SVOC by EPA Method 8270D SIM and had reported exceedances under each method. To remain consistent with past reports, only the SVOC by EPA Method 8270D SIM results are compared to the CDPHE Basic Groundwater Standard in this report.]

6.0 CONCLUSIONS AND RECOMMENDATIONS

This section presents USA's conclusions from the findings of Subsurface Investigation activities completed during November and December 2012.

6.1 Conclusions

The data generated in this Investigation, coupled with other site data, support the following conclusions:

- At least some of the former MGP facility infrastructure, including the gas delivery piping and a concrete foundation associated with the Main Holder, remains in place beneath the surface of the Site.
 - Other components of the historic infrastructure likely are present (process tanks, Relief Holder components and additional piping) based on the correlation with the previous electromagnetic survey and other historical site data.
- Investigation results to date suggest the location of the two holders and possibly the process tank area are the key historic MGP features at the Site in terms of residual contamination and any impacts.
- While there is some evidence of prior fluid leakage associated with the gas delivery pipe, the piping is not likely to be a significant source of MGP impacts.

6.2 Recommendations

Based upon the findings of the 2012 Investigation, USA recommends a series of phased actions focused on supplemental characterization and the removal of process-related residuals, or impacted infrastructure and associated soils. The characterization actions will identify the presence of remaining infrastructure, identification and characterization of any remaining process residual fluids, and further characterization of groundwater conditions. Future removal action(s) may occur coincident with the characterization efforts, or may be deferred as part of a formal removal program, and will seek to remove remaining infrastructure or source materials that may impact groundwater quality. We recommend the following phased actions as follows:

- **Supplemental Characterization** – Undertake additional subsurface investigation to evaluate whether process-related residuals related to other components of the former MGP-related infrastructure remain. At a minimum, these efforts should seek to evaluate conditions associated with the following components:
 - Remaining Main Holder features.
 - Relief Holder and associated Tar Well.
 - Former Process Tanks.
- **Source Mass Removal** – Recovery and removal of remaining MGP process-related residuals associated with the former infrastructure through excavation, vacuum extraction, or other means, where identified. Source mass removal should be

completed in an effort to minimize the soil to groundwater pathway and to meet the applicable CDPHE CSEV Groundwater Protection Levels.

- **Groundwater Characterization** - Additional groundwater characterization should be performed between the Process Facilities and the Relief Holder.
- **Groundwater Monitoring** - Groundwater should be monitored quarterly to include groundwater level analysis and groundwater sample collection to evaluate the dissolved-phase groundwater concentrations of applicable VOCs/SVOCs observed at the Site during the 2010 and 2012 investigations. Scheduled monitoring activities should continue so long as needed to evaluate the effectiveness of source mass removal activities.
- **Off-Site Investigation** - Based upon the results of the Investigation, what appear to be localized groundwater impacts at the Site, and the lack of downgradient receptors, any decision on the need to characterize groundwater off-site can be deferred until further Site characterization activities are complete.

7.0 CITED REFERENCES

Colorado Department of Public Health and Environment Water Quality Control Commission (CDPHE), 2013, "The Basic Standards for Ground Water (amended September 11, 2012, effective January 31, 2013)," September 11, 2012.

CDPHE, 2011, "CDPHE, Hazardous Materials and Waste Management Division, Table 1. Colorado Soil Evaluation Values (CSEV Table) – July 2011," July, 2011.

Environmental Resources Management (ERM), 2011, "Limited Phase II Subsurface Investigation, 1770 13th Street, Boulder, Colorado," April 14, 2011.

Maxim Technologies Inc., 1996, "Phase II Environmental Subsurface Investigation, Dushanbe Tea House Site, 13th and Canyon Street, Boulder, Colorado," March 12, 1996.

Maxim Technologies Inc., 1997, "Geophysical Investigation and Limited Excavation Results, Proposed Boulder Dushanbe Teahouse Site, 13th and Canyon, Boulder, Colorado," April 21, 1997.



Tables

TABLE 1
Summary of VOC and TPH Analytical Results in Soil

November and December 2012

1770 13th Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (VOCs by 8260B)	CDPHE CSEV- Groundwater Protection Level - July 2011 ⁽¹⁾	Soil Sample Locations							
		EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	MW-7	MW-8
		4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Depth (feet bgs)	Sample Date:	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
Benzene	0.17	ND (<0.005)	ND (<0.002)	ND (<0.002)	ND (<0.002)	ND (<0.002)	0.180	ND (<0.002)	0.051
Bromobenzene	3	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Bromochloromethane		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Bromodichloromethane	0.007	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Bromoform	0.048	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Bromomethane	0.16	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)
n-Butylbenzene	240	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
sec-Butylbenzene	230	ND (<0.005)	1.3	0.36	ND (<0.005)				
tert-Butylbenzene	230	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Carbon tetrachloride	0.92	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Chlorobenzene	5.3	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Chloroethane	520	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Chloroform	0.085	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Chloromethane	20	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)
Chlorodibromomethane	0.11	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)
2-Chlorotoluene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
4-Chlorotoluene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2-Dibromo-3-chloropropane	0.002	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)
1,2-Dibromoethane (EDB)	0.00018	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Dibromomethane		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2-Dichlorobenzene	57	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,3-Dichlorobenzene	8.5	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,4-Dichlorobenzene	7.8	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Dichlorodifluoromethane	390	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,1-Dichloroethane	1.8	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2-Dichloroethane (EDC)	0.0036	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,1-Dichloroethene	12	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
cis-1,2-Dichloroethene	1.3	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
trans-1,2-Dichloroethene	5.4	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2-Dichloropropane	0.0087	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,3-Dichloropropane		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
2,2-Dichloropropane		ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)
1,1-Dichloropropene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
cis-1,3-Dichloropropene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
trans-1,3-Dichloropropene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Ethylbenzene	100	0.277	5.0	3.0	ND (<0.005)	ND (<0.005)	0.180	ND (<0.005)	0.230
Hexachlorobutadiene	0.17	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Tert-amyl methyl ether		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Tert-butyl alcohol		ND (<0.02)	ND (<0.02)	ND (<0.02)	ND (<0.02)	ND (<0.02)	ND (<0.02)	ND (<0.02)	ND (<0.02)
Ethyl tert-butyl ether		ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)
Isopropylbenzene		0.127	2.0	0.74	ND (<0.005)	ND (<0.005)	0.052	ND (<0.005)	0.140
Di-Isopropyl Ether		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
p-Isopropyltoluene		0.088	2.1	0.41	ND (<0.01)	ND (<0.01)	0.250	ND (<0.01)	0.240
Methylene Chloride	0.06	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)	ND (<0.015)
Methyl tert-butyl ether		ND (<0.005)	ND (<0.015)						
Naphthalene	23	NA	210	130	ND (<0.01)	360	960	ND <0.01	210
n-Propylbenzene	77	0.0571	2.2	0.82	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	0.060
Styrene	14	ND (<0.01)	2.2	ND (<0.01)					
1,1,2,2-Tetrachloroethane	0.0024	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,1,1,2-Tetrachloroethane	0.16	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Tetrachloroethene	1.9	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Toluene	50	ND (<0.005)	ND (<0.005)	0.02	ND (<0.005)	ND (<0.005)	0.240	ND (<0.005)	0.033
1,2,3-Trichlorobenzene		ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2,4-Trichlorobenzene	13	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,1,2-Trichloroethane	0.038	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,1,1-Trichloroethane	62	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Trichloroethene	0.68	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
Trichlorofluoromethane	1,000	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
1,2,3-Trichloropropane	27	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)
1,3,5-Trimethylbenzene	23	0.105	2.0	0.84	ND (<0.005)	ND (<0.005)	0.060	ND (<0.005)	0.170
1,2,4-Trimethylbenzene	71	0.338	10.0	6.2	ND (<0.005)	ND (<0.005)	12.0	ND (<0.005)	0.740
Vinyl chloride	0.11	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)
m,p-Xylene	75 ⁽²⁾	0.105	1.8	1.7	ND (<0.01)	ND (<0.01)	18.0	ND (<0.01)	0.260
o-Xylene	75 ⁽²⁾	0.225	5.2	3.2	ND (<0.005)	6.8	13.0	ND (<0.005)	0.420
TPH-GRO		NA	1800	1400	ND (<0.5)	ND (<0.5)	3,500	ND (<0.5)	260

Analyte (TPH-DRO by 8015)	CDPHE CSEV- Groundwater Protection Level - July 2011 ⁽¹⁾	Soil Sample Locations							
		EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	MW-7	MW-8
		4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Depth (feet bgs)	Sample Date:	11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
TPH-DRO		NA	NA	4900	NA	460	11,000	NA	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.

2 - CDHPE CSEV Groundwater Protection Level for xylenes is reported for total xylenes

Volatile Organic Compounds (VOCs) analyzed by USEPA Method 8260B.

Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels

ND - Not detected at or above the reporting limit.

NA - Not analyzed.

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics.

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics.

TABLE 2 Summary of SVOC Analytical Results in Soil

November and December 2012

1770 13th Street

Boulder, Colorado

All constituents are reported in milligrams per kilogram (mg/kg)

Analyte (SVOCs by 8270D)	CDPHE CSEV- Groundwater Protection Level July 2011 ⁽¹⁾	Soil Sample Locations							
		EX-1 ⁽²⁾⁽⁴⁾	EX-2 ⁽²⁾	EX-3 ⁽²⁾	EX-4	EX-5	EX-6	MW-7	MW-8 ⁽²⁾
Sample Depth (feet bgs)		4.75	6.5	8.5	7	6	1.25	10 to 11	9 to 10
Sample Date:		11/27/2012	11/29/2012	11/29/2012	11/29/2012	12/4/2012	12/5/2012	11/29/2012	11/29/2012
Acenaphthene	1,000	0.79 ⁽³⁾	51.0	26.0	0.1 ⁽³⁾	ND (<3.3)	140	ND (<0.33)	130
Acenaphthylene		1.7	2.4 ⁽³⁾	1.4 ⁽³⁾	0.021 ⁽³⁾	5.3	440	ND (<0.33)	49
Anthracene	1,000	0.97 ⁽³⁾	20.0	9.6	0.18 ⁽³⁾	ND (<3.3)	190	0.0077 ⁽³⁾	68
Benzo (a) anthracene	1,000	0.8 ⁽³⁾	9.3	5.4	0.014 ⁽³⁾	12.0	180	0.0087 ⁽⁴⁾	49
Benzo (b) fluoranthene	1,000	0.23 ⁽³⁾	3.8	2.8 ⁽⁴⁾	ND (<0.33)	12.0	68.0	ND (<0.33)	77
Benzo (k) fluoranthene	1,000	0.34 ⁽³⁾	6.4	3.8	ND (<0.33)	13.0	110	ND (<0.33)	75
Benzo (g,h,i) perylene		0.11 ⁽³⁾	1.6 ⁽³⁾	0.77 ⁽³⁾	ND (<0.33)	4.2	ND (<33.0)	ND (<0.33)	9.1 ⁽³⁾
Benzo (a) pyrene	1,000	0.44 ⁽³⁾	8.7	4.8	ND (<0.33)	15.0	150	ND (<0.33)	53
Chrysene	1,000	0.86 ⁽³⁾	8.8	4.8	0.014 ⁽³⁾	13.0	180	0.009 ⁽³⁾	45
Dibenz (a,h) anthracene	1,000	ND (<1.3)	0.27 ⁽³⁾	0.57 ⁽³⁾	ND (<0.33)	ND (<0.33)	ND (<33.0)	ND (<0.33)	1.0 ⁽³⁾
Fluoranthene	1,000	0.87 ⁽³⁾	25.0	13.0	0.17 ⁽³⁾	9.8	260	0.016 ⁽³⁾	90
Fluorene	1,000	2.1	25.0	15.0	0.12 ⁽³⁾	ND (<3.3)	440	ND (<0.33)	110
Indeno (1,2,3-cd) pyrene	1,000	0.055 ⁽³⁾	2.1 ⁽³⁾	1.0 ⁽³⁾	ND (<0.33)	5.9	ND (<33.0)	ND (<0.33)	10 ⁽³⁾
Naphthalene	23	24.0	140	67.0	0.021 ⁽³⁾	8.8	1400	ND (<0.33)	230
Phenanthrene		3.2	64.0	39.0	0.57	ND (<3.3)	830	0.026 ⁽³⁾	250
Pyrene	1,000	3.0	ND (<3.3)	ND (<3.3)	ND (<0.33)	25.0	650	ND (<0.33)	NA

Notes:

1 - The Colorado Department of Public Health and Environment (CDPHE) utilizes the Colorado Soil Evaluation Values (CSEV Table) for screening of the Groundwater Protection Level. The most recent version (July 2011) of the CSEV Table was utilized to evaluate the Groundwater Protection Levels.

2 - The reporting limit for analytes have been raised to account for matrix interference.

3 - Detected but below the reporting limit; therefore, result is an estimated concentration.

4 - The full 8270D list was reported for sample. Of the 57 other constituents reported, only six constituents were detected. Of the six detections, nitrobenzene at 0.18 mg/kg was the only analyte to exceed CDPHE CSEV Groundwater Protection Level of 0.061 mg/kg.

Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM, except at EX-1 where SVOCs analyzed by USEPA Method 8270D Full Scan.

Cells highlighted in **BLUE** indicate an exceedance of the CSEV for Groundwater Protection Levels.

ND - Not detected at or above the reporting limit.

NA - Not analyzed.

Table 3
Summary of Groundwater Monitoring Well Measurements

October 2010 - November 2012
 1770 13th Street
 Boulder, Colorado

Monitoring Well Location	Date	Depth to Groundwater BTOC ⁽¹⁾ (feet)	Depth to Product BTOC ⁽¹⁾ (feet)	Product Thickness (feet)	Total Depth (feet)	TOC Elevation ⁽²⁾ (feet amsl)	Groundwater Elevation (feet amsl)	Change in Groundwater Elevation Since Previous Event ⁽³⁾ (feet)	Comments:
MW-1	10/4/2010	10.74	ND	None		5,341.51	5,330.77	NM	
MW-1	9/27/2011	10.79	ND	None			5,330.72	-0.05	
MW-1	1/16/2012	11.32	ND	None			5,330.19	-0.53	
MW-1	5/7/2012	9.71	ND	None			5,331.80	1.61	
MW-1	11/30/2012	11.07	ND	None	15.73	5,341.52	5,330.45	-1.36	
MW-2	10/4/2010	9.91	ND	None		5,339.48	5,329.57	NM	
MW-2	9/27/2011	10.02	ND	None			5,329.46	-0.11	
MW-2	1/16/2012	10.51	ND	None			5,328.97	-0.49	
MW-2	5/7/2012	8.95	ND	None			5,330.53	1.56	
MW-2	11/30/2012	10.18	ND	None	13.40	5,339.52	5,329.34	-1.23	
MW-3	10/4/2010	8.53	ND	None		5,338.04	5,329.51	NM	
MW-3	9/27/2011	8.62	ND	None			5,329.42	-0.09	
MW-3	1/16/2012	9.12	ND	None			5,328.92	-0.50	
MW-3	5/7/2012	7.52	ND	None			5,330.52	1.60	
MW-3	11/30/2012	8.79	ND	None	14.31	5,338.09	5,329.30	-1.27	Sheen
MW-4	10/4/2010	5.96	ND	None		5,336.63	5,330.67	NM	
MW-4	9/27/2011	6.12	ND	None			5,330.51	-0.16	
MW-4	1/16/2012	6.82	ND	None			5,329.81	-0.70	
MW-4	5/7/2012	4.51	ND	None			5,332.12	2.31	
MW-4	11/30/2012	6.36	ND	None	14.06	5,336.64	5,330.28	-1.85	
MW-5	10/4/2010	8.02	ND	None		5,338.13	5,330.11	NM	
MW-5	9/27/2011	8.17	ND	None			5,329.96	-0.15	
MW-5	1/16/2012	8.81	ND	None			5,329.32	-0.64	
MW-5	5/7/2012	6.57	ND	None			5,331.56	2.24	
MW-5	11/30/2012	8.33	ND	None	14.00	5,338.18	5,329.85	-1.76	Sheen
MW-6	10/4/2010	7.83	ND	None		5,337.51	5,329.68	NM	
MW-6	9/27/2011	8.05	ND	None			5,329.46	-0.22	
MW-6	1/16/2012	8.72	ND	None			5,328.79	-0.67	
MW-6	5/7/2012	6.32	ND	None			5,331.19	2.40	
MW-6	11/30/2012	8.17	ND	None	14.39	5,337.53	5,329.36	-1.85	
MW-7	11/30/2012	8.50	ND	None	14.67	5,337.69	5,329.19	NM	
MW-8	11/30/2012	8.83	ND	None	13.95	5,338.44	5,329.61	NM	Sheen

Notes:

1- Depths to groundwater/product measured from the north edge of the well casing. Measurements prior to 11/30/12, were collected by others.

2- All monitoring wells were surveyed on December 3, 2012 by Flagstaff Surveying, Inc. to NAVD 88 datum.

3-Change in groundwater elevation is based on the change in elevation since the most recent measuring event. Change in groundwater elevations calculated for 11/30/2012 are based on depth to water measurements between May 2012 and November 2012 to accommodate the new (December 2012) survey elevations.

amsl - above mean sea level

BTOC - below top of casing

TOC - top of casing

ND - not detected

NM - not measured

Sheen - sheen observed on water surface during purging activities for sample collection.

TABLE 4
Summary of VOC and TPH Analytical Results in Aqueous Samples

November and December 2012

1770 13th Street

Boulder, Colorado

All constituents are reported in micrograms per liter (ug/L)

Analyte (VOCs by 8260B)	Colorado Basic Standards for Groundwater ⁽¹⁾	Sample Location												
		MW-1	MW-2	MW-3	MW-3-DUP	MW-4	MW-5	MW-6	MW-7	MW-8	SPWATER ⁽³⁾	NPWATER ⁽⁴⁾	HOLDER ⁽⁵⁾	
Sample Date:		11/30/2012	11/30/2012	12/3/2012	12/3/2012	11/30/2012	12/3/2012	11/30/2012	12/3/2012	12/3/2012	11/27/2012	11/28/2012	12/6/2012	
Benzene	5.0	ND(<1.0)	ND(<1.0)	26	28	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	28	780	3,170	4,000	2,400,000
Bromobenzene	56	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Bromochloromethane		ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<50,000)
Bromodichloromethane	0.56	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND(<2.0)	ND<20,000
Bromoform	4	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Bromomethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
n-Butylbenzene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	150,000
sec-Butylbenzene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
tert-Butylbenzene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Carbon tetrachloride	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Chlorobenzene	100	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Chloroethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Chloroform	3.5	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<50,000)
Chloromethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Chlorodibromomethane	14	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
2-Chlorotoluene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
4-Chlorotoluene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2-Dibromo-3-chloropropane	0.2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2-Dibromoethane (EDB)	0.018	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Dibromomethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2-Dichlorobenzene	600	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,3-Dichlorobenzene	94	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,4-Dichlorobenzene	75	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Dichlorodifluoromethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1-Dichloroethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2-Dichloroethane (EDC)	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1-Dichloroethene	7	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
cis-1,2-Dichloroethene	70	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
trans-1,2-Dichloroethene	100	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2-Dichloropropane	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,3-Dichloropropane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
2,2-Dichloropropane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1-Dichloropropene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
cis-1,3-Dichloropropene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
trans-1,3-Dichloropropene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Ethylbenzene	700	ND(<1.0)	ND(<1.0)	60	62	ND(<1.0)	2.9	8.8	30	710	1,480	1,390	4,500,000	
Hexachlorobutadiene	0.45	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Tert-amyl methyl ether		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Tert-butyl alcohol		ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	ND(<20)	23.7	ND<200,000	
Ethyl tert-butyl ether		ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	NA	
Isopropylbenzene		ND(<1.0)	ND(<1.0)	11	12	ND<1.0	4.9	2.4	9.3	55	69.9	64.9	480,000	
Di-Isopropyl Ether		ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	NA
p-Isopropyltoluene		ND(<1.0)	ND(<1.0)	4.3	4.9	ND(<1.0)	4.5	1.7	2.0	8.6	9.75	10.2	390,000	
Methylene Chloride		ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<50,000)
Methyl tert-butyl ether	20 ⁽²⁾	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<5.0)	ND(<50,000)
Naphthalene	140	ND(<1.0)	ND(<1.0)	800	740	2.9	1,000	270	120	4,700	NA	15,800	60,000,000	
n-Propylbenzene		ND(<1.0)	ND(<1.0)	2.9	3.1	ND(<1.0)	3.4	1.1	1.1	16	17	21.5	210,000	
Styrene	100	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1,2,2-Tetrachloroethane	0.18	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1,1,2-Tetrachloroethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Tetrachloroethene	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Toluene	1,000	ND(<1.0)	ND(<1.0)	7.4	7.7	ND(<1.0)	ND(<1.0)	ND(<1.0)	7.8	210	2,980	4,040	4,300,000	
1,2,3-Trichlorobenzene		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2,4-Trichlorobenzene	70	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1,2-Trichloroethane	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,1,1-Trichloroethane	200	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
Trichloroethene	5	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	38,000
Trichlorofluoromethane		ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,2,3-Trichloropropane	0.00034	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
1,3,5-Trimethylbenzene		ND(<1.0)	ND(<1.0)	11	12	ND(<1.0)	4.8	2.5	9.2	47	65.8	60.4	490,000	
1,2,4-Trimethylbenzene		ND(<1.0)	ND(<1.0)	11	12	ND(<1.0)	12	4.2	4.2	62	ND(<1.0)	99	810,000	
Vinyl chloride	2	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<10,000)
m,p-Xylene	10,000	ND(<2.0)	ND(<2.0)	12	13	ND(<2.0)	ND(<2.0)	4.6	5.8	220	1,150	1,310	3,500,000	
o-Xylene	10,000	ND(<1.0)	ND(<1.0)	31	35	ND(<1.0)	1.6	5.3	35	270	532	610	1,500,000	
TPH-GRO		ND(<500)	ND(<500)	1600	1,700	ND(<500)	1,400	ND(<500)	1,200	9,700	NA	NA	120,000,000	

Analyte (TPH-DRO by 8015)	Colorado Basic Standards for Groundwater ⁽¹⁾	Sample Location											
		MW-1	MW-2	MW-3	MW-3-DUP	MW-4	MW-5	MW-6	MW-7	MW-8	SPWATER ⁽³⁾	NPWATER ⁽⁴⁾	HOLDER ⁽⁵⁾
Sample Date:		11/30/2012	11/30/2012	12/3/2012	12/3/2012	11/30/2012	12/3/2012	11/30/2012	12/3/2012	12/3/2012	11/27/2012	11/	

TABLE 5 Summary of SVOC Analytical Results in Aqueous Samples

November and December 2012

1770 13th Street

Boulder, Colorado

All constituents are reported in micrograms per liter (ug/L)

Analyte (SVOCs by 8270D)	Colorado Basic Standards for Groundwater ⁽¹⁾	Sample Locations											
		MW-1	MW-2	MW-3	MW-3-DUP	MW-4	MW-5	MW-6	MW-7	MW-8	SPWATER ⁽²⁾	NPWATER ⁽³⁾	HOLDER ⁽⁴⁾
Sample Date:		11/30/2012	11/30/2012	12/3/2012	12/3/2012	11/30/2012	12/3/2012	11/30/2012	12/3/2012	12/3/2012	11/27/2012	11/28/2012	12/6/2012
Acenaphthene	420	ND(<10)	ND(<10)	153	162	ND(<10)	51.0	52.0	80.3	444	19.5	40.2	2,140,000
Acenaphthylene		ND(<10)	ND(<10)	32.8	33.8	ND(<10)	102	63.8	16.1	92.8	144	258	12,000,000
Anthracene	2,100	ND(<10)	ND(<10)	14.4	14.6	ND(<10)	17.9	12.1	ND(<10)	91.0	ND(<10)	ND(<10)	3,630,000
Benzo (a) anthracene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	52.7	ND(<10)	ND(<10)	ND(<10)
Benzo (b) fluoranthene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	28.6	ND(<10)	ND(<10)	1,410,000
Benzo (k) fluoranthene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	38.6	ND(<10)	ND(<10)	1,910,000
Benzo (g,h,i) perylene		ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	14.4	ND(<10)	ND(<10)	226,000
Benzo (a) pyrene	0.2	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	71.9	ND(<10)	ND(<10)	2,240,000
Benzoic acid		NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<30)	334	NA
Pyridine		NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<20)	147	NA
Chrysene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	49.7	ND(<10)	ND(<10)	2,850,000
Dibenz (a,h) anthracene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND<3,300
Diethyl phthalate	5600	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<10)	79.3	NA
2,4-Dimethylphenol	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.9	130	NA
2,4-Dinitrotoluene	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<10)	41.2	NA
Fluoranthene	280	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	12.0	ND(<10)	ND(<10)	105	ND(<10)	ND(<10)	3,260,000
Fluorene	280	ND(<10)	ND(<10)	57.7	46.3	ND(<10)	46.7	42.7	26.6	207	39.1	72.3	8,590,000
Hexachloroethane	0.88	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<10)	11.4	NA
Indeno (1,2,3-cd) pyrene	0.0048	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	12.2	15.3	ND(<10)	452,000
Isophorone	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<10)	49.5	NA
2-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	1,190	109	NA
2-Methylphenol		NA	NA	NA	NA	NA	NA	NA	NA	NA	29.7	149	NA
4-Methylphenol		NA	NA	NA	NA	NA	NA	NA	NA	NA	126	229	NA
Naphthalene	140	ND(<10)	ND(<10)	371	341	ND(<10)	545	184	79.7	3,950	7,210	13,300	79,000,000
Phenanthrene		ND(<10)	ND(<10)	71.5	72.3	ND(<10)	86.2	63.8	25.0	494	39.1	ND(<10)	12,500,000
Phenol	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<10)	205	NA
Aniline	6.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND(<20)	26.4	NA
Pyrene	210	ND(<10)	ND(<10)	ND(<10)	ND(<10)	ND(<10)	16.4	ND(<10)	ND(<10)	154	ND(<10)	ND(<10)	8,180,000

Notes:

- 1 - The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission, 5CCR 1002-41, The Basic Standards for Groundwater, Amended September 11, 2012, effective January 31, 2013.
- 2 - SPWATER sample was collected from fluid observed in the southern 12-inch process pipe. Laboratory reported the full 8270D list; constituents reported that are not included on this table were not detected above laboratory limits.
- 3 - NPWATER sample was collected from fluid observed in the northern 12-inch process pipe. Laboratory reported the full 8270D list; constituents reported that are not included on this table were not detected above laboratory limits.
- 4 - HOLDER sample was collected from the fluids observed in the underground vault structure below the Main Holder foundation.

Semi-volatile Organic Compounds (SVOCs) analyzed by USEPA Method 8270D SIM.

Cells highlighted in **BLUE** indicate an exceedance of the CDPHE groundwater standards.

ND - Not detected at or above the reporting limit.



Figures



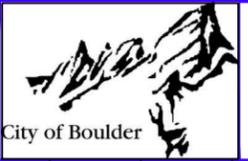


No.	Date	Revisions	By	Ckd

Project Manager's name
CRAIG LUGOWSKI
Date
April 5, 2013
State
CO
Designed by
VEB
Date Signed

Drawn by
ET
Project Mgr.

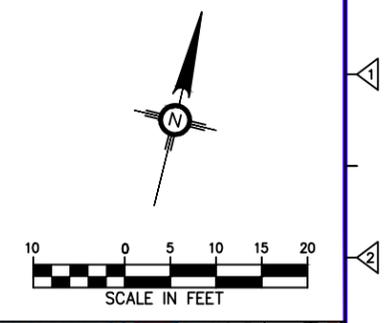
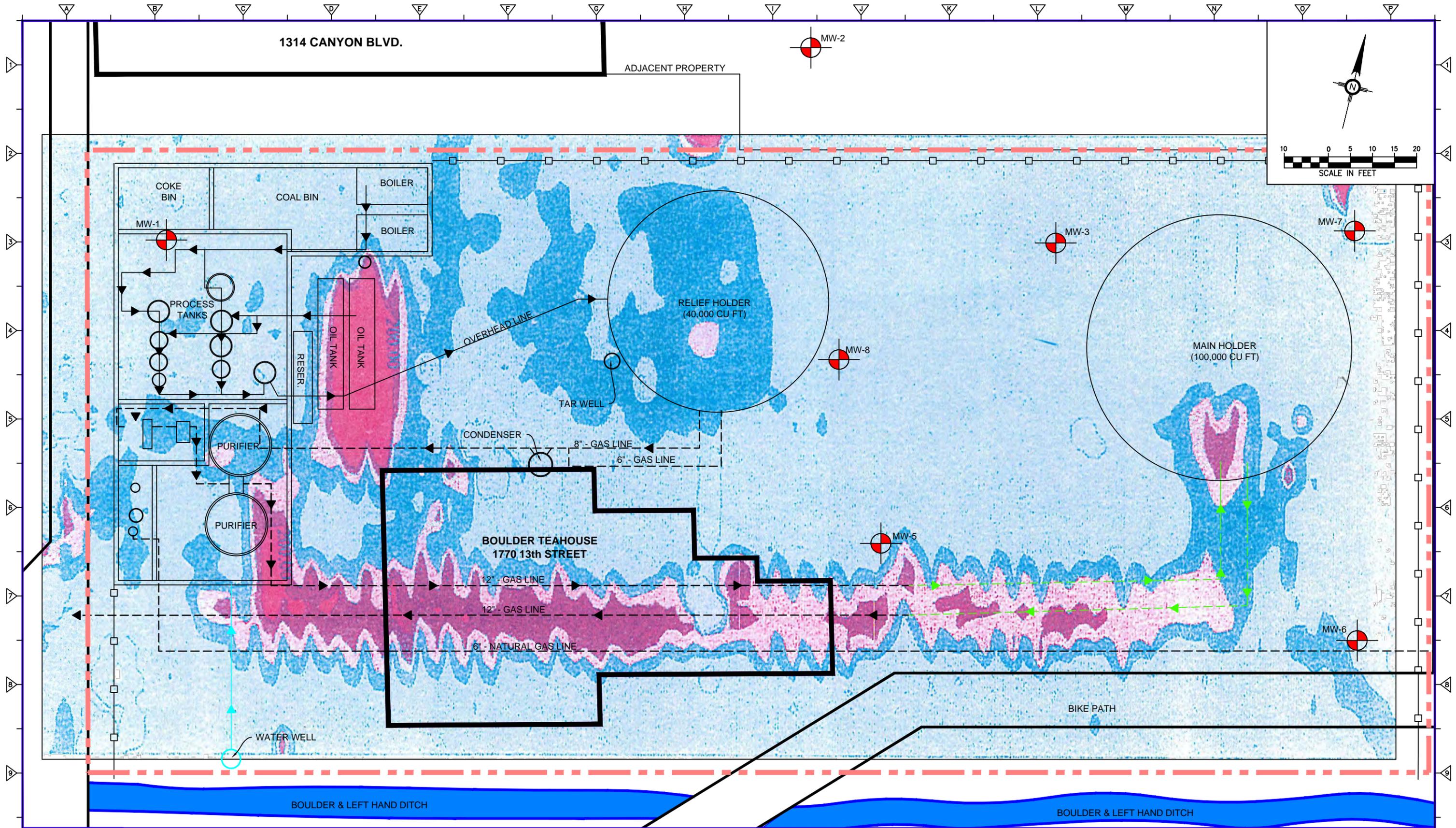
Checked by



**13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.**

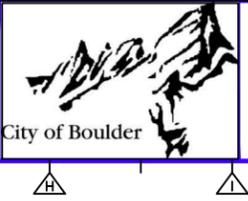
**SITE MAP
2011 AERIAL IMAGE**

USA ENVIRONMENT Project No. .
5045
Drawing Name
Boulder Gas Plant With Survey.dwg
FIGURE 1



Project Manager's name CRAIG LUGOWSKI		Date April 5, 2013	
No.	Date	Revisions	By Ckd
<small>THIS DRAWING IS THE PROPERTY OF THE USA ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REPRODUCED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.</small>			

USA ENVIRONMENT, L.P.
 A Full Service Environmental Company
 17301 WEST COLFAX AVENUE
 SUITE 152 GOLDEN CO 80401



13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

FORMER MGP INFRASTRUCTURE
WITH EM-61/DIFFERENTIAL CHANNEL
ELECTRO-MAGNETIC SURVEY (RDS)

USA ENVIRONMENT Project No.	5045
Drawing Name	Boulder Gas Plant With Survey.dwg
FIGURE 2	



Project Manager's name CRAIG LUGOWSKI Date April 5, 2013				13TH STREET PLAZA 1770 13TH ST. BOULDER, CO.	SOIL RESULTS MAP (NOVEMBER-DECEMBER 2012)	USA ENVIRONMENT Project No. : 5047 Drawing Name Boulder Gas Plant With Survey.dwg
State CO Date Signed Project Mgr. Designed by MM Drawn by ET Checked by 						

THIS DRAWING IS THE PROPERTY OF THE USA ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REPRODUCED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME.

Z:\PROJECTS\B\City of Boulder\Figures\2012 November_December Excavation\Boulder Gas Plant with Survey.dwg



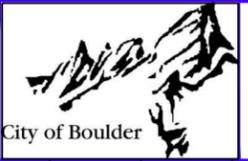
LEGEND

- MW-1
EXISTING MONITORING WELLS
- PROPERTY BOUNDARY
- BUILDING OR STRUCTURE
- EXISTING ROADS AND SIDEWALK
- 5330.45
MEASURED GROUNDWATER ELEVATION- FEET ABOVE MEAN SEA LEVEL (AMSL)
- 5330.40
GROUNDWATER ELEVATION CONTOUR - AMSL (DASHED WHERE INFERRED)

No.	Date	Revisions	By	Ckd

Project Manager's name
CRAIG LUGOWSKI
Date
April 5, 2013

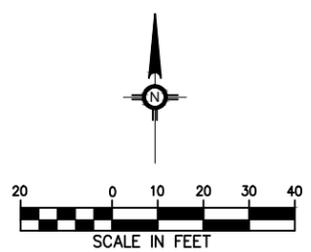
State	Date Signed	Project Mgr.
CO		
Designed by	Drawn by	Checked by
MM	ET	



13TH STREET PLAZA
1770 13TH ST.
BOULDER, CO.

GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 30, 2012

USA ENVIRONMENT Project No .
5047
Drawing Name
Boulder Gas Plant With Survey.dwg
FIGURE 4



LEGEND
 MW-1 EXISTING MONITORING WELLS

NOTES:
 1. RED TEXT REPRESENTS EXCEEDANCE OF CDPHE BASIC STANDARDS FOR GROUNDWATER, JANUARY 2013.
 2. ND = NOT DETECTED.
 3. NA = NOT ANALYZED.

MW-1	10/4/2010	11/30/2012
Units	ug/L	ug/L
All VOCs	ND	ND
All SVOCs	ND	ND
TPH - GRO	NA	ND
TPH - DRO	NA	ND

MW-4	10/4/2010	11/30/2012
Units	ug/L	ug/L
Ethylbenzene	1.2	ND
Total Xylenes	3.7	ND
Acenaphthene	2.0	ND
Acenaphthylene	4.2	ND
Anthracene	1.8	ND
Fluorene	3.8	ND
2-Methylnaphthalene	10.2	NA
Napthalene (by 8270D)	7.5	ND
Phenanthrene	5.4	ND
Pyrene	1.1	ND
TPH - GRO	NA	ND
TPH - DRO	NA	ND

MW-2	10/4/2010	11/30/2012
Units	ug/L	ug/L
All VOCs	ND	ND
All SVOCs	ND	ND
TPH - GRO	NA	ND
TPH - DRO	NA	ND

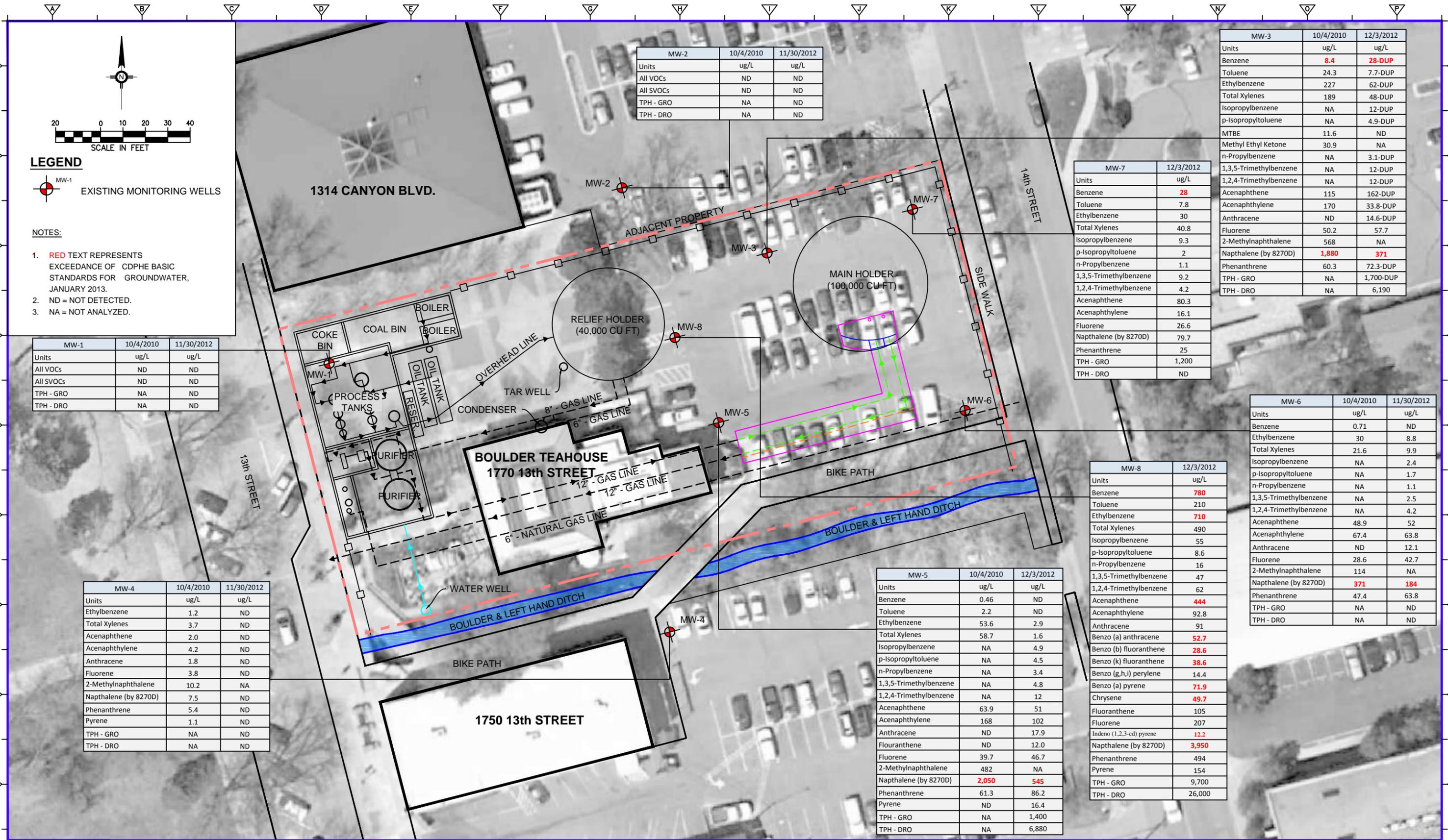
MW-7	12/3/2012
Units	ug/L
Benzene	28
Toluene	7.8
Ethylbenzene	30
Total Xylenes	40.8
Isopropylbenzene	9.3
p-Isopropyltoluene	2
n-Propylbenzene	1.1
1,3,5-Trimethylbenzene	9.2
1,2,4-Trimethylbenzene	4.2
Acenaphthene	80.3
Acenaphthylene	16.1
Fluorene	26.6
Napthalene (by 8270D)	79.7
Phenanthrene	25
TPH - GRO	1,200
TPH - DRO	ND

MW-3	10/4/2010	12/3/2012
Units	ug/L	ug/L
Benzene	8.4	28-DUP
Toluene	24.3	7.7-DUP
Ethylbenzene	227	62-DUP
Total Xylenes	189	48-DUP
Isopropylbenzene	NA	12-DUP
p-Isopropyltoluene	NA	4.9-DUP
MTBE	11.6	ND
Methyl Ethyl Ketone	30.9	NA
n-Propylbenzene	NA	3.1-DUP
1,3,5-Trimethylbenzene	NA	12-DUP
1,2,4-Trimethylbenzene	NA	12-DUP
Acenaphthene	115	162-DUP
Acenaphthylene	170	33.8-DUP
Anthracene	ND	14.6-DUP
Fluorene	50.2	57.7
2-Methylnaphthalene	568	NA
Napthalene (by 8270D)	1,880	371
Phenanthrene	60.3	72.3-DUP
TPH - GRO	NA	1,700-DUP
TPH - DRO	NA	6,190

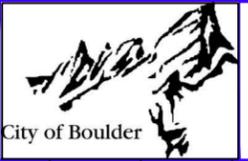
MW-6	10/4/2010	11/30/2012
Units	ug/L	ug/L
Benzene	0.71	ND
Ethylbenzene	30	8.8
Total Xylenes	21.6	9.9
Isopropylbenzene	NA	2.4
p-Isopropyltoluene	NA	1.7
n-Propylbenzene	NA	1.1
1,3,5-Trimethylbenzene	NA	2.5
1,2,4-Trimethylbenzene	NA	4.2
Acenaphthene	48.9	52
Acenaphthylene	67.4	63.8
Anthracene	ND	12.1
Fluorene	28.6	42.7
2-Methylnaphthalene	114	NA
Napthalene (by 8270D)	371	184
Phenanthrene	47.4	63.8
TPH - GRO	NA	ND
TPH - DRO	NA	ND

MW-8	12/3/2012
Units	ug/L
Benzene	780
Toluene	210
Ethylbenzene	710
Total Xylenes	490
Isopropylbenzene	55
p-Isopropyltoluene	8.6
n-Propylbenzene	16
1,3,5-Trimethylbenzene	47
1,2,4-Trimethylbenzene	62
Acenaphthene	444
Acenaphthylene	92.8
Anthracene	91
Benzo (a) anthracene	52.7
Benzo (b) fluoranthene	28.6
Benzo (k) fluoranthene	38.6
Benzo (g,h,i) perylene	14.4
Benzo (a) pyrene	71.9
Chrysene	49.7
Fluoranthene	105
Fluorene	207
Indeno (1,2,3-cd) pyrene	12.2
Napthalene (by 8270D)	3,950
Phenanthrene	494
Pyrene	154
TPH - GRO	9,700
TPH - DRO	26,000

MW-5	10/4/2010	12/3/2012
Units	ug/L	ug/L
Benzene	0.46	ND
Toluene	2.2	ND
Ethylbenzene	53.6	2.9
Total Xylenes	58.7	1.6
Isopropylbenzene	NA	4.9
p-Isopropyltoluene	NA	4.5
n-Propylbenzene	NA	3.4
1,3,5-Trimethylbenzene	NA	4.8
1,2,4-Trimethylbenzene	NA	12
Acenaphthene	63.9	51
Acenaphthylene	168	102
Anthracene	ND	17.9
Flouranthene	ND	12.0
Fluorene	39.7	46.7
2-Methylnaphthalene	482	NA
Napthalene (by 8270D)	2,050	545
Phenanthrene	61.3	86.2
Pyrene	ND	16.4
TPH - GRO	NA	1,400
TPH - DRO	NA	6,880



Project Manager's name CRAIG LUGOWSKI	
Date April 5, 2013	
State CO	Project Mgr.
Designed by MM	Checked by CEL



13TH STREET PLAZA
 1770 13TH ST.
 BOULDER, CO.

**HISTORICAL AND CURRENT
 GROUNDWATER ANALYTICAL RESULTS
 (2010 THRU 2012)**

USA ENVIRONMENT Project No. 5047
Drawing Name Boulder Gas Plant With Survey.dwg
FIGURE 5



Attachment A

**Non-Hazardous Waste Manifests and Pipe
Recycling Weight Ticket**

**NON-HAZARDOUS
WASTE MANIFEST**



1251034

1. Generator's Mailing Address & Phone

City of Boulder Colorado
1770 13th St Boulder, CO 80302

Generator's Project Address

2. Bill to:

2a. Account # USA Environ LP

3. Transporter: Company Name

303 248-8050
JRB Barlow Trucking

3a. Transporter's Phone 15137 *

303-721-1316

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address

Denver Arapahoe Disposal Site
3500 South Sun Club Road

5a. Facility's Phone

(720) 876-2620

6. Waste Code/Profile #

Waste Description

Quantity

Units

11015400

Non Regulated Solid "Investigative Derived Waste"

10

Yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #

Waste Description

Quantity

Units or Drums

Non-Friable Asbestos

7. Regulatory Agency:

Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ _ - _ _ _

8. Contractor/Generator Certification:

I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator

Printed/Typed Full Name

Stan Magee

Signature (Full Name)

Stan Magee

Month Day Year

12 4 12

9. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Full Name

Jerry Barlow

Signature (Full Name)

Jerry Barlow

* Month Day Year

12 21 12

10. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Full Name

Signature (Full Name)

Month Day Year

. . .

11. Discrepancy indication Space

Initials of Person noting discrepancy _____ Date _____

12. Ticket #

13. Management Method/Location Solidification Monofill Landfill Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name

Signature (Full Name)

Month Day Year

. . .

CONTRACTOR'S COPY

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**



299, 314

1251035

1. Generator's Mailing Address & Phone City of Boulder Colorado 1776 13th St Boulder, CO 80302 303 242 0050		Generator's Project Address		2. Bill to: USA Environ LP	
3. Transporter: Company Name <i>J&B Barton Trucking</i>		3a. Transporter's Phone 303-921-1316		2a. Account # D 13137	
4. Transporter: Company Name		4a. Transporter's Phone		5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3506 South Gun Club Road Aurora, CO 80018	
5. Designated Management Facility Name and Site Address		5a. Facility's Phone (720) 876-8680			

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid / 1/2" = "Investigative Derived Waste"	10	Yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246	24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ - _ _ - _ _
--	--

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator Printed/Typed Full Name: <i>Slam Magee</i>	Signature (Full Name): <i>Slam Magee</i>	Month Day Year 12 5 12
9. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Full Name: <i>Jerry Barton</i>	Signature (Full Name): <i>Jerry Barton</i>	Month Day Year 12 5 12
10. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Full Name:	Signature (Full Name):	Month Day Year . . .

11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____	12. Ticket #
--	--------------

13. Management Method/Location Solidification Monofill Landfill Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name	Signature (Full Name)	Month Day Year . . .
-------------------------	-----------------------	-------------------------

GENERATOR TRANSPORTER FACILITY

**NON-HAZARDOUS
 WASTE MANIFEST**



229,314

1251036

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-0050		Generator's Project Address	
	2. Bill to: 2a. Account #		USA Environ LP D 15137	
	3. Transporter: Company Name <i>Triple Crown Ventures</i>		3a. Transporter's Phone <i>303 947-5220</i>	
	4. Transporter: Company Name		4a. Transporter's Phone	
	5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3500 South Gun Club Road Aurora, CO 80018		5a. Facility's Phone (720) 876-2620	
6. Waste Code/Profile #		Waste Description	Quantity	Units
11315400		Non Regulated Solid / 9' x 9' L = "Investigative Derived Waste"	10	4 ds
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)				
Waste Code/Profile #		Waste Description	Quantity	Units or Drums
		Non-Friable Asbestos		
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246		24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _		
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.				
8a. Contractor/Generator				
Printed/Typed Full Name <i>Alan Magee</i>		Signature (Full Name) <i>Alan Magee</i>		Month Day Year 12 3 12
9. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Full Name <i>David Wilson</i>		Signature (Full Name) <i>David Wilson</i>		Month Day Year 1 20 12
10. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Full Name		Signature (Full Name)		Month Day Year
11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____			12. Ticket #	
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds Grid Location (if applicable): _____				
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.				
Printed/Typed Full Name		Signature (Full Name)		Month Day Year

TRANSPORTER

FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**



289, 314

1251037

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-0050		Generator's Project Address		
	TRIPLE OWN VENTURES		2. Bill to: USA Environ LP		
			2a. Account # D 15137		
	3. Transporter: Company Name		3a. Transporter's Phone		
	4. Transporter: Company Name		4a. Transporter's Phone		
5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3500 South Gun Club Road Aurora, CO 80013		5a. Facility's Phone (720) 876-2620			
6. Waste Code/Profile #		Waste Description		Quantity	Units
11315400		Non Regulated Solid / 4" x 4" = "Inventoritive Derived Waste"		10	Yds
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)					
Waste Code/Profile #		Waste Description		Quantity	Units or Drums
		Non-Friable Asbestos			
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246			24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _ _		
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.					
8a. Contractor/Generator					
Printed/Typed Full Name Stam Magee		Signature (Full Name) <i>Stam Magee</i>		Month	Day Year
				12	5 12
9. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Full Name <i>David Wilson</i>		Signature (Full Name) <i>David Wilson</i>		Month	Day Year
				12	05 12
10. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Full Name		Signature (Full Name)		Month	Day Year
				.	.
11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____				12. Ticket #	
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds Grid Location (if applicable): _____					
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.					
Printed/Typed Full Name		Signature (Full Name)		Month	Day Year
				.	.

TRANSPORTER

FACILITY

CONTRACTOR'S COPY

**NON-HAZARDOUS
WASTE MANIFEST**



229,314

1251038

1. Generator's Mailing Address & Phone
City of Boulder Colorado
1776 13th St Boulder, CO 80302
303 242-8858

Generator's Project Address

2. Bill to: USA Environ LP
2a. Account # D 15137

WM
9750 East 14th and Henderson, CO 80140

3. Transporter: Company Name

3a. Transporter's Phone
303-336-3919

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
Denver Arapahoe Disposal Site
3500 South Gun Club Road
Aurora, CO 80018

5a. Facility's Phone
(720) 876-2620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11518400	Non Regulated Solid / 4' x 4' x 4' "Incombustible Derived Waste"	8	Yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER
(_ _ _) _ _ - _ _ _

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator
Printed/Typed Full Name: *Glenn Magee* Signature (Full Name): *Glenn Magee* Month: 12 Day: 6 Year: 12

9. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: *Paul Ruiz* Signature (Full Name): *Paul Ruiz* Month: 12 Day: 6 Year: 12

10. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: _____ Signature (Full Name): _____ Month: . Day: . Year: .

11. Discrepancy indication Space
Initials of Person noting discrepancy _____ Date _____

12. Ticket #

13. Management Method/Location Solidification Monofill Landfill Bio-Beds
Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.
Printed/Typed Full Name: _____ Signature (Full Name): _____ Month: . Day: . Year: .

GENERATOR
TRANSPORTER
FACILITY

CONTRACTOR'S COPY

**NON-HAZARDOUS
WASTE MANIFEST**



289,314

1251039

GENERATOR

1. Generator's Mailing Address & Phone
 City of Boulder Colorado
 1770 13th St Boulder, CO 80302
 303 242-8050

Generator's Project Address

2. Bill to: USA Environ LP
 2a. Account # D 15137

WMA
 7780 E aletb ave Henderson CO 80640

3. Transporter: Company Name

3a. Transporter's Phone
 303-736-7919

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
 Denver Arapahoe Disposal Site
 3500 South Gun Club Road
 Aurora, CO 80014

5. Designated Management Facility Name and Site Address

5a. Facility's Phone
 (720) 876-8620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid 1/2" x 1/2" = "Investigative Derived Waste"	8	yards

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
 Colorado Department of Public Health and Environment
 4300 Cherry Creek Drive South
 Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ _ - _ _ _

8. Contractor/Generator Certification:
 I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator

<i>Stan Magee</i> Printed/Typed Full Name	<i>Stan Magee</i> Signature (Full Name)	Month Day Year 12 10 12
--	--	----------------------------

9. Transporter 1 Acknowledgement of Receipt of Materials

<i>Randy Ruiz</i> Printed/Typed Full Name	<i>Randy Ruiz</i> Signature (Full Name)	Month Day Year 12 10 12
--	--	----------------------------

10. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Full Name	Signature (Full Name)	Month Day Year . . .
-------------------------	-----------------------	-------------------------

11. Discrepancy indication Space

Initials of Person noting discrepancy _____ Date _____

12. Ticket #

13. Management Method/Location Solidification Monofill Landfill Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name	Signature (Full Name)	Month Day Year . . .
-------------------------	-----------------------	-------------------------

TRANSPORTER

FACILITY

CONTRACTOR'S COPY

**NON-HAZARDOUS
WASTE MANIFEST**



204 314

1250162

GENERATOR

1. Generator's Mailing Address & Phone
 City of Boulder Colorado
 1770 13th St Boulder, CO 80302
 303 242-0050

Generator's Project Address
 2. Bill to: USA Environ LP
 2a. Account # D 15137

3. Transporter: Company Name
 BRYAN J COULTER

3a. Transporter's Phone
 303 901 0590

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
 Denver Arapahoe Disposal Site
 3500 South Gun Club Road
 Aurora, CO 80013

5a. Facility's Phone
 (720) 876-2620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non-Regulated Solid Waste "Investigative Debris Waste"	12	CV

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
 Colorado Department of Public Health and Environment
 4300 Cherry Creek Drive South
 Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER
 (_ _ _) _ _ _ - _ _ _ - _ _ _

8. Contractor/Generator Certification:
 I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

TRANSPORTER

8a. Contractor/Generator
 Printed/Typed Full Name: Glan Magee Signature (Full Name): [Signature] Month Day Year: 11 29 12

9. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Full Name: Bryan Coulters Signature (Full Name): [Signature] Month Day Year: 11 27 12

10. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Full Name: _____ Signature (Full Name): _____ Month Day Year: _____

FACILITY

11. Discrepancy indication Space
 Initials of Person noting discrepancy _____ Date _____ 12. Ticket # 1066739

13. Management Method/Location Solidification Monofill Landfill Bio-Beds
 Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.
 Printed/Typed Full Name: [Signature] Signature (Full Name): [Signature] Month Day Year: 11 26 12

TRANSPORTER COPY

NON-HAZARDOUS WASTE MANIFEST



2009.014

1250163

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-0050		Generator's Project Address		2. Bill to: USA Environ LP 2a. Account # 0-15137	
	3. Transporter: Company Name <i>Jose Casillas Trucking</i>		3a. Transporter's Phone <i>720 936 4185</i>		4. Transporter's Phone	
	4. Transporter: Company Name		4a. Transporter's Phone		5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3500 South Sun Club Road Aurora, CO 80018	
	5. Designated Management Facility Name and Site Address		5a. Facility's Phone <i>(720) 876-2620</i>			
	6. Waste Code/Profile # <i>11315400</i>		Waste Description <i>Non Regulated Solid 45% L Investigative Derived Waste</i>		Quantity <i>10</i>	Units <i>YD</i>
TRANSPORTER	NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)					
	Waste Code/Profile #		Waste Description		Quantity	Units or Drums
			Non-Friable Asbestos			
	7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246			24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _		
	8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.					
8a. Contractor/Generator						
<i>Glenn Magee</i> Printed/Typed Full Name		<i>Glenn Magee</i> Signature (Full Name)		Month Day Year <i>11 30 12</i>		
9. Transporter 1 Acknowledgement of Receipt of Materials						
<i>Jose M. Casillas</i> Printed/Typed Full Name		<i>Jose M. Casillas</i> Signature (Full Name)		Month Day Year <i>11 30 12</i>		
10. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Full Name		Signature (Full Name)		Month Day Year		
11. Discrepancy Indication Space						
Initials of Person noting discrepancy _____ Date _____				12. Ticket # <i>1868985</i>		
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds						
Grid Location (if applicable): _____						
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.						
<i>Kyle Polinske</i> Printed/Typed Full Name		<i>Kyle Polinske</i> Signature (Full Name)		Month Day Year <i>11 30 12</i>		

TRANSPORTER COPY

**NON-HAZARDOUS
WASTE MANIFEST**



229,314

1250166

GENERATOR

1. Generator's Mailing Address & Phone
City of Boulder Colorado
1770 13th St Boulder, CO 80302
303 242-8050

Generator's Project Address

2. Bill to: USA Environ LP
2a. Account # 0 15137

3. Transporter: Company Name

F.M. Handling

3a. Transporter's Phone
720-206-9726

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
Denver Arapahoe Disposal Co
3590 South Gun Club Road
Aurora, CO 80018

5a. Facility's Phone
(720) 876-8620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non-Regulated Solid Waste "Investigative Residual Waste"	12 Yds	Yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ - _ _ - _ _

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

TRANSPORTER

8a. Contractor/Generator	Printed/Typed Full Name <i>Clayton Magee</i>	Signature (Full Name) <i>Clayton Magee</i>	Month Day Year <i>11 30 12</i>
9. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Full Name <i>Clayton Magee</i>	Signature (Full Name) <i>Clayton Magee</i>	Month Day Year <i>11 30 12</i>
10. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Full Name	Signature (Full Name)	Month Day Year

FACILITY

11. Discrepancy indication Space
Initials of Person noting discrepancy _____ Date _____

12. Ticket #
1869145

13. Management Method/Location Solidification Monofill Landfill Bio-Beds
Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.
Printed/Typed Full Name *David* Signature (Full Name) *David* Month Day Year *11 30 12*

TRANSPORTER COPY

**NON-HAZARDOUS
WASTE MANIFEST**



200, 314

1250168

1. Generator's Mailing Address & Phone
City of Boulder Colorado
1770 13th St Boulder, CO 80302
303 242-8050

Generator's Project Address

2. Bill to: USA Environ LP
2a. Account # D 15137

JUBO Trucking

* 3. Transporter: Company Name
3a. Transporter's Phone *
303-944-7241

4. Transporter: Company Name
4a. Transporter's Phone

Denver Arapahoe Disposal Co Designated Management Facility Name and Site Address
3500 South Gun Club Road
Aurora, CO 80015

5a. Facility's Phone
(720) 876-2620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid / y, l, e "Incombustible Derived Waste"	* 12	* yards

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ _ - _ _ _

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator
Printed/Typed Full Name: *Gleam Magee* Signature (Full Name): *Gleam Magee* Month Day Year: *12 03 12*

9. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: _____ Signature (Full Name): _____ Month Day Year: . . .

10. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: *Daniel Blair* Signature (Full Name): *Daniel Blair* Month Day Year: *12 03 12*

11. Discrepancy Indication Space
Initials of Person noting discrepancy _____ Date _____

12. Ticket # _____

13. Management Method/Location Solidification Monofill Landfill Bio-Beds
Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.
Printed/Typed Full Name: _____ Signature (Full Name): _____ Month Day Year: . . .

73400

NON-HAZARDOUS WASTE MANIFEST



229, 314

1250170

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-0000		Generator's Project Address	
	2. Bill to: USA Environ LP		2a. Account # D 15137	
	3. Transporter: Company Name <i>Who Trucking</i>		3a. Transporter's Phone <i>303-944-3241</i>	
	4. Transporter: Company Name		4a. Transporter's Phone	
Denver Arapahoe Disposal 55. Designated Management Facility Name and Site Address 3500 South Sun Club Road Aurora, CO 80018			5a. Facility's Phone (720) 876-2620	

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid / 4" x 4" x 4" "Investigative Derived Waste"	12	yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246	24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _ - _ _ _
--	--

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator			
Printed/Typed Full Name <i>Stan Magee</i>		Signature (Full Name) <i>Stan Magee</i>	
9. Transporter 1 Acknowledgement of Receipt of Materials			
Printed/Typed Full Name <i>David Blair</i>		Signature (Full Name) <i>David Blair</i>	
10. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Full Name		Signature (Full Name)	

11. Discrepancy Indication Space	12. Ticket #
Initials of Person noting discrepancy _____ Date _____	<i>1870093</i>

13. Management Method/Location Solidification Monofill Landfill Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name <i>Kael Robinson</i>	Signature (Full Name) <i>Kael Robinson</i>	Month Day Year <i>11/23/07</i>
---	---	-----------------------------------

GENERATOR TRANSPORTER FACILITY

CONTRACTOR'S COPY

NON-HAZARDOUS WASTE MANIFEST



229, 314

1250171

1. Generator's Mailing Address & Phone City of Boulder Colorado 1776 13th St Boulder, CO 80302 303 442-6850		Generator's Project Address	
		2. Bill to: USA Environ LP 2a. Account # 0 15137	
		3. Transporter: Company Name John Mackinnon	
		3a. Transporter's Phone	
		4. Transporter: Company Name	
		4a. Transporter's Phone	
5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3500 South Gun Club Road Aurora, CO 80016		5a. Facility's Phone (720) 876-2620	

6. Waste Code/Profile #	Waste Description	Quantity	Units
113154CD	Non Regulated Solid / 4" x 1/2" - "Investigative Derived Waste"	12	drums

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246	24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ - _ _ - _ _
--	--

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator			
Printed/Typed Full Name Glenn Wadde	Signature (Full Name) <i>[Signature]</i>	Month 12	Day 12
9. Transporter 1 Acknowledgement of Receipt of Materials			
Printed/Typed Full Name Charles Adams	Signature (Full Name) <i>[Signature]</i>	Month 12	Day 5
10. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Full Name	Signature (Full Name)	Month	Day

11. Discrepancy Indication Space Initials of Person noting discrepancy _____ Date _____	12. Ticket # 1670135
--	-------------------------

13. Management Method/Location	<input type="checkbox"/> Solidification	<input type="checkbox"/> Monofill	<input checked="" type="checkbox"/> Landfill	<input type="checkbox"/> Bio-Beds
Grid Location (if applicable):				

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.			
Printed/Typed Full Name Ken Robinson	Signature (Full Name) <i>[Signature]</i>	Month 12	Day 3

GENERATOR TRANSPORTER FACILITY

TRANSPORTER COPY

**NON-HAZARDOUS
 WASTE MANIFEST**



229, 314

1250172

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1776 13th St Boulder, CO 80302 303 242-8050		Generator's Project Address	
			2. Bill to: USA Environ LP 2a. Account # D 15137	
	3. Transporter: Company Name <i>Jubo Trucking</i>		3a. Transporter's Phone # <i>702 944-3241</i>	
	4. Transporter: Company Name		4a. Transporter's Phone	
	Denver Arapahoe Disposal 55 Designated Management Facility Name and Site Address 3500 South Gun Club Road Aurora, CO 80018		5a. Facility's Phone (720) 876-2620	
6. Waste Code/Profile #	Waste Description	Quantity	Units	
11313400	Non Regulated Solid / 1/2" x 1/2" = "Investigative Derived Waste"	12	Yds	
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)				
Waste Code/Profile #	Waste Description	Quantity	Units or Drums	
	Non-Friable Asbestos			
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246		24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _		
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.				
8a. Contractor/Generator				
Printed/Typed Full Name <i>Alan Magee</i>		Signature (Full Name) <i>Alan Magee</i>		Month Day Year <i>12 3 12</i>
9. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Full Name <i>David Blair</i>		Signature (Full Name) <i>David Blair</i>		Month Day Year <i>12 03 12</i>
10. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Full Name		Signature (Full Name)		Month Day Year
11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____			12. Ticket # _____	
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds Grid Location (if applicable): _____				
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.				
Printed/Typed Full Name		Signature (Full Name)		Month Day Year

TRANSPORTER

FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**



229, 314

1250174

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-8850		Generator's Project Address		2. Bill to: USA Environ LP 2a. Account # 0 15137		
	Jube Trucking		3. Transporter: Company Name		3a. Transporter's Phone * 303-944-3241		
			4. Transporter: Company Name		4a. Transporter's Phone		
	Denver Arapahoe Disposal 55 Designated Management Facility Name and Site Address 3500 South Gun Club Road Aurora, CO 80018			5a. Facility's Phone (726) 876-2626			
	6. Waste Code/Profile #		Waste Description		Quantity	Units	
113154C0		Non Regulated Solid / "Investinative Derived Waste"		10	Yds		
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)							
Waste Code/Profile #		Waste Description		Quantity	Units or Drums		
		Non-Friable Asbestos					
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246				24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _ - _ _ _			
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.							
8a. Contractor/Generator							
Printed/Typed Full Name Stan Magee		Signature (Full Name) <i>Stan Magee</i>		Month	Day	Year	
9. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Full Name David Blair		Signature (Full Name) <i>David Blair</i>		Month	Day	Year	
10. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Full Name		Signature (Full Name)		Month	Day	Year	
11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____					12. Ticket #		
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds Grid Location (if applicable): _____							
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.							
Printed/Typed Full Name				Signature (Full Name)		Month Day Year	

TRANSPORTER

FACILITY

CONTRACTOR'S COPY

NON-HAZARDOUS WASTE MANIFEST



289,314

1250175

GENERATOR	1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-8450		Generator's Project Address		2. Bill to: USA Environ LP		
					2a. Account # 015137		
			#3. Transporter: Company Name <i>Jobo Tracking</i>		3a. Transporter's Phone <i>AE</i>		
			4. Transporter: Company Name		4a. Transporter's Phone		
	Denver Arapahoe Disposal Site 3300 South Gun Club Road Aurora, CO 80018		5. Designated Management Facility Name and Site Address		5a. Facility's Phone (720) 876-2620		
6. Waste Code/Profile #		Waste Description		Quantity		Units	
11315400		Non Regulated Solid Waste <i>Interventions Remedial Waste</i>		10		Yards	
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)							
Waste Code/Profile #		Waste Description		Quantity		Units or Drums	
		Non-Friable Asbestos					
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246				24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _			
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.							
8a. Contractor/Generator							
Printed/Typed Full Name <i>Glam Magee</i>				Signature (Full Name) <i>Glam Magee</i>		Month Day Year 12 3 12	
9. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Full Name <i>Charlie Adams</i>				Signature (Full Name) <i>Charlie Adams</i>		Month Day Year 12 03 12	
10. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Full Name				Signature (Full Name)		Month Day Year	
11. Discrepancy Indication Space						12. Ticket # <i>1870479</i>	
Initials of Person noting discrepancy		Date					
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds							
Grid Location (if applicable):							
14. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 11.							
Printed/Typed Full Name <i>APole</i>				Signature (Full Name) <i>APole</i>		Month Day Year 12 3 12	

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER COPY

**NON-HAZARDOUS
WASTE MANIFEST**



229, 314

1250176

1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-8050		Generator's Project Address		2. Bill to: USA Environ LE 2a. Account # 0.15137	
3. Transporter: Company Name <i>Bryan Curtis</i>		3a. Transporter's Phone 303-401-0590		4. Transporter: Company Name 4a. Transporter's Phone	
Denver Wapahoe Disposal 3500 South Gun Club Road Aurora, CO 80018		5. Designated Management Facility Name and Site Address		5a. Facility's Phone (720) 876-2620	
6. Waste Code/Profile #	Waste Description	Quantity	Units		
11315400	Non-Regulated Solid 7 1/2" LF "Investigative Derived Waste"	10	yds		
NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)					
Waste Code/Profile #	Waste Description	Quantity	Units or Drums		
	Non-Friable Asbestos				
7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246			24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _		
8. Contractor/Generator Certification: I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.					
8a. Contractor/Generator Printed/Typed Full Name: <i>Glen Magee</i> Signature (Full Name): <i>Glen Magee</i> Month Day Year: 12/3/12					
9. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Full Name: <i>Bryan Curtis</i> Signature (Full Name): <i>Bryan Curtis</i> Month Day Year: 12/3/12					
10. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Full Name: _____ Signature (Full Name): _____ Month Day Year: . . .					
11. Discrepancy Indication Space Initials of Person noting discrepancy: _____ Date: _____				12. Ticket # <i>1250176</i>	
13. Management Method/Location <input type="checkbox"/> Solidification <input type="checkbox"/> Monofill <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Bio-Beds Grid Location (if applicable): _____					
14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11. Printed/Typed Full Name: <i>[Signature]</i> Signature (Full Name): <i>[Signature]</i> Month Day Year: 12/3/12					

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER COPY

**NON-HAZARDOUS
WASTE MANIFEST**



289,314

1250178

1. Generator's Mailing Address & Phone
City of Boulder Colorado
1770 13th St Boulder, CO 80502
303 442-8050

Generator's Project Address

2. Bill to: USA Environ LP
2a. Account # 0 13137

J & B Barlow Trucking

*3. Transporter: Company Name
3a. Transporter's Phone #
303-921-1316

4. Transporter: Company Name
4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
Denver Arapahoe Disposal
2500 South Gun Club Road
Aurora, CO 80018

5a. Facility's Phone
(720) 876-2620

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid / PCB's "Inert Inactive Derived Waste"	10	yards

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ - _ _

8. Contractor/Generator Certification:
I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator
Printed/Typed Full Name: *Glam Magee*
Signature (Full Name): *Glam Magee*
Month Day Year: *12 4 12*

9. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: *Jerry Barlow*
Signature (Full Name): *Jerry Barlow*
Month Day Year: *12 4 12*

10. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Full Name: _____
Signature (Full Name): _____
Month Day Year: . . .

11. Discrepancy indication Space
Initials of Person noting discrepancy: _____ Date: _____

12. Ticket #
1870726

13. Management Method/Location
 Solidification Monofill Landfill Bio-Beds
Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.
Printed/Typed Full Name: *La Robinson*
Signature (Full Name): *La Robinson*
Month Day Year: *12 11 12*

TRANSPORTER COPY

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST



229,314

1250180

1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-0054	Generator's Project Address	2. Bill to: USA Environ LP 2a. Account # 0 15137
	3. Transporter: Company Name <i>C.F. M. Handling</i>	3a. Transporter's Phone 720-206-5726

Denver Arapahoe Disposal Site 3500 South Sun Club Road Aurora, CO 80016	5. Designated Management Facility Name and Site Address 5a. Facility's Phone (720) 876-2620
---	---

6. Waste Code/Profile #	Waste-Description	Quantity	Units
11015400	Non-Regulated Solid / "Investigation Derived Waste"	12	yds

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246	24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ _ - _ _ _
--	--

8. Contractor/Generator Certification:
 I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator			
Printed/Typed Full Name <i>Glan Magee</i>	Signature (Full Name) <i>Glan Magee</i>	Month Day Year 12 4 12	
9. Transporter 1 Acknowledgement of Receipt of Materials:			
Printed/Typed Full Name <i>Jerry Lutz Simmons</i>	Signature (Full Name) <i>Jerry Lutz Simmons</i>	Month Day Year 12 4 12	
10. Transporter 2 Acknowledgement of Receipt of Materials:			
Printed/Typed Full Name	Signature (Full Name)	Month Day Year	

11. Discrepancy indication Space Initials of Person noting discrepancy _____ Date _____	12. Ticket # 1870948
--	-------------------------

13. Management Method/Location Solidification Monofill Landfill Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name <i>Ken Robles</i>	Signature (Full Name) <i>Ken Robles</i>	Month Day Year 12 12 12
--	--	----------------------------

TRANSPORTER COPY

NON-HAZARDOUS WASTE MANIFEST



229,314

1250183

1. Generator's Mailing Address & Phone City of Boulder Colorado 1770 13th St Boulder, CO 80302 303 242-6050		Generator's Project Address		2. Bill to: USA Environ LP	
		2a. Account # D 15137			
		3. Transporter: Company Name <i>[Signature]</i>		3a. Transporter's Phone * 720-206-5726	
		4. Transporter: Company Name		4a. Transporter's Phone	
5. Designated Management Facility Name and Site Address Denver Arapahoe Disposal Site 3500 South Gun Club Road Aurora, CO 80010				5a. Facility's Phone (720) 876-2620	

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non-Regulated Solid Waste Construction Material	12	yd

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80246	24 HOUR EMERGENCY PHONE NUMBER (_ _ _) _ _ - _ _
--	--

8. Contractor/Generator Certification:
 I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator Printed/Typed Full Name: <i>Glenn Magee</i> Signature (Full Name): <i>[Signature]</i> Month Day Year: 11 30 12	
9. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Full Name: <i>Robert Fitzsimmons</i> Signature (Full Name): <i>[Signature]</i> Month Day Year: 11 30 12	
10. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Full Name: _____ Signature (Full Name): _____ Month Day Year: . . .	

11. Discrepancy Indication Space Initials of Person noting discrepancy: _____ Date: _____	12. Ticket # 1819400
--	-------------------------

13. Management Method/Location

Solidification
 Monofill
 Landfill
 Bio-Beds

Grid Location (if applicable): _____

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name: <i>[Signature]</i>	Signature (Full Name): <i>[Signature]</i>	Month Day Year: 11 30 12
---	---	--------------------------

TRANSPORTER COPY

NON-HAZARDOUS WASTE MANIFEST



229,314

1250184

1. Generator's Mailing Address & Phone
 City of Boulder Colorado
 1776 13th St Boulder, CO 80502
 303 242-0050

Generator's Project Address

2. Bill to: USA Environ LP
 2a. Account # D 15137

3. Transporter: Company Name
Subo Trucking

3a. Transporter's Phone *

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
 Denver Arapahoe Disposal Site
 3500 South Gun Club Road
 Aurora, CO 80018

5a. Facility's Phone
 (720) 876-8600

6. Waste Code/Profile #	Waste Description	Quantity	Units
11315400	Non Regulated Solid / 4" x 4" x 4" "Investigation Performed, black"	12	40

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #	Waste Description	Quantity	Units or Drums
	Non-Friable Asbestos		

7. Regulatory Agency:
 Colorado Department of Public Health and Environment
 4300 Cherry Creek Drive South
 Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER
 (_ _ _) _ _ _ - _ _ _ - _ _ _

8. Contractor/Generator Certification:
 I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations, and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator
 Printed/Typed Full Name: *Glenn Wagner* Signature (Full Name): *Glenn Wagner* Month Day Year: 11/30/12

9. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Full Name: *Charles Adams* Signature (Full Name): *Charles Adams* Month Day Year: 11/30/12

10. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Full Name: Signature (Full Name): Month Day Year:

11. Discrepancy indication Space
 Initials of Person noting discrepancy: Date:

12. Ticket #
 1849394

13. Management Method/Location: Solidification Monofill Landfill Bio-Beds
 Grid Location (if applicable):

14. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in item 11.
 Printed/Typed Full Name: *Theresa B.* Signature (Full Name): *Theresa B.* Month Day Year: 11/30/12

GENERATOR TRANSPORTER FACILITY

TRANSPORTER COPY

NON-HAZARDOUS WASTE MANIFEST



829,314

1250185

1. Generator's Mailing Address & Phone

City of Boulder Colorado
1770 13th St Boulder, CO 80302
303 442-8050

Generator's Project Address

2. Bill to:

USA Environ LP
2a. Account # D 15137

3. Transporter: Company Name

Uubo Trucking

3a. Transporter's Phone

303-944-3241

4. Transporter: Company Name

4a. Transporter's Phone

5. Designated Management Facility Name and Site Address
Denver Arapahoe Disposal 3500 South Gun Club Road Aurora, CO 80010

5a. Facility's Phone

(720) 876-2620

6. Waste Code/Profile #

Waste Description

Quantity

Units

11315400

Non Regulated Solid / 5' x 5' "Inert/Inorganic Depleted Waste"

12

yd

NON-FRIABLE ASBESTOS WASTE ONLY (Friable may not be shipped on this manifest)

Waste Code/Profile #

Waste Description

Quantity

Units or Drums

Non-Friable Asbestos

7. Regulatory Agency:

Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246

24 HOUR EMERGENCY PHONE NUMBER

(_ _ _) _ _ _ - _ _ _

8. Contractor/Generator Certification:

I hereby certify that the above described waste is not hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. This waste has been accurately classified, described, packaged, marked and labeled and is in proper condition for transportation according to applicable international and governmental regulations.

8a. Contractor/Generator

Printed/Typed Full Name
Glen Magee

Signature (Full Name)
Glen Magee

Month Day Year
11 30 12

9. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Full Name
David Blair

Signature (Full Name)
David Blair

Month Day Year
11 30 12

10. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Full Name

Signature (Full Name)

Month Day Year

11. Discrepancy indication Space

Initials of Person noting discrepancy _____ Date _____

12. Ticket #

186940

13. Management Method/Location

Solidification

Monofill

Landfill

Bio-Beds

Grid Location (if applicable):

14. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 11.

Printed/Typed Full Name

David Blair

Signature (Full Name)

David Blair

Month Day Year

11 30 12

CONTRACTOR'S COPY



NON-HAZARDOUS WASTE MANIFEST

04347

Please print or type.

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address <i>U.S. Environment</i>			5. Generating Location (if different) <i>17701 W. Gilmer Ave. St. 152</i>		
4. Phone <i>(303) 242-8050</i>			6. Phone <i>(303) 242-8050</i>		
7. Transporter #1 Company Name ACI SERVICES		8. US EPA ID Number		9. Transporter #1's Phone (303) 991-6002	
10. Transporter #2 Company Name		11. US EPA ID Number		12. Transporter #2's Phone	
13. Designated T/S/D Facility Name and Site Address RARITAN CWT 2696 S. Raritan Street Englewood, CO 80110		14. US EPA ID Number		15. Facility's Phone (303) 979-2730	
16. Waste Shipping Name and Description		17.		18. Containers	
				19. Total Quantity	
				20. Unit Wt/Vol	
a. Unleaded Gasoline Contaminated Water				Gallons	
b. Diesel Contaminated Water				Gallons	
c. Petroleum Contaminated Soil				CYS	
d.					
21. Additional Descriptions for Materials Listed Above					
22. Special Handling Instructions and Additional Information					
23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name <i>Jim Carrington</i>			Signature <i>[Signature]</i>		Month Day Year <i>11 29 12</i>
24. Transporter #1: Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>Todd Brown Miller</i>			Signature <i>[Signature]</i>		Month Day Year <i>11 29 12</i>
25. Transporter #2: Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Month Day Year
26. Discrepancy Indication Space					
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)					
Printed/Typed Name <i>Kevin Aross</i>			Signature <i>[Signature]</i>		Month Day Year <i>11 29 12</i>

GENERATOR

TRANSPORTER

T/S/D FACILITY

ORIGINAL - RETURN TO GENERATOR

NHWM 06/08



NON-HAZARDOUS WASTE MANIFEST

10650

Please print or type.

1. Generator's US EPA ID Number		Manifest Document Number		2. Page 1 of	
3. Generator's Name and Mailing Address CITY OF BOULDER 1775 14 TH ST BOULDER CO			5. Generating Location (if different) 1770 13 TH ST BOULDER, CO		
4. Phone ()		8. US EPA ID Number		9. Transporter #1's Phone	
7. Transporter #1 Company Name		11. US EPA ID Number		12. Transporter #2's Phone	
10. Transporter #2 Company Name		14. US EPA ID Number		15. Facility's Phone (303) 979-2730	
13. Designated T/S/D Facility Name and Site Address RARITAN CWT 2696 S. Raritan Street Englewood, CO 80110			15. Facility's Phone		
16. Waste Shipping Name and Description			18. Containers		19. Total Quantity
			No.	Type	
a. Non U.S. EPA or DOT regulated contaminated water/gasoline mix					Gallons
b. Non U.S. EPA or DOT regulated contaminated water/diesel mix OIL / MEX			1	TT	450 Gallons
c. Petroleum Contaminated Soil					CYS
d.					
21. Additional Descriptions for Materials Listed Above					
22. Special Handling Instructions and Additional Information					
23. GENERATOR'S CERTIFICATION: I certify the materials described on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name Craig Ludwig, City of Boulder			Signature 		Month Day Year 12 6 12
24. Transporter #1: Acknowledgement of Receipt of Materials					
Printed/Typed Name Kerem Acik			Signature 		Month Day Year 12 06 12
25. Transporter #2: Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Month Day Year
26. Discrepancy Indication Space					
27. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest (except as noted in Item 19)					
Printed/Typed Name Kerem Acik			Signature 		Month Day Year 12 06 12

GENERATOR

TRANSPORTER

T/S/D FACILITY

ORIGINAL - RETURN TO GENERATOR

NHWM 01/12

SETTLEMENT

ALL RECYCLING INC.
1775 WEST WESLEY AVE.

ENGLEWOOD, CO 80110

Account: USA002
USA ENVIRONMENT, LP
17301 W. COLFAX AVE., SUITE 15
GOLDEN, CO 80401

12/10/2012

Page 1 of 1

Invoice #	Receiver # Description	Recv Date	Reference	Gross	Tare	Contract Net	Price / UM	Carrier	Amount
1141397	1141397 STEEL TIN	12/6/2012	1141397	43,840	31,900	11,940	195.00 / NT	ALL138	1,164.1
	1141397 Environmental Fee	12/6/2012	1141397			0		ALL138	-1.0
	1141397 FREIGHT CHARGE	12/6/2012	1141397					ALL138	-200.0
						Totals	11,940		<u>963.1</u>



Attachment B

Boring Logs, Well Construction Logs and Well Development Logs



PROJECT: City of Boulder - 13th Street Plaza		BORING ID: MW-7		1 of 1
LOCATION: 1770 13th Street, Boulder, Colorado		WELL ID: MW-7		
NORTHING (ft): 1248686.5		EASTING (ft): 3062558.75		WELL CONSTRUCTION DETAILS
LOGGED BY: MPM		DEPTH TO WATER (ft bgs): 8.43		
DATE STARTED: 11/29/2012		TOTAL DEPTH (ft bgs): 16		Surface Seal (ft bgs): <u>0</u> to <u>1</u> Type: <u>concrete</u>
DATE COMPLETED: 11/29/2012		GROUND SURFACE ELEV. (ft MSL): 5338.15		Bentonite Seal (ft bgs): <u>1</u> to <u>3</u> Type: <u>bentonite</u>
BORING DIAMETER (inches): 8		TOC ELEVATION (ft MSL): 5337.69		Filter Pack Interval (ft bgs): <u>3</u> to <u>16</u> Notes:
CASING DIAMETER (inches): 2		Screen Interval (ft bgs): <u>5.1</u> to <u>14.5</u>		

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/6in.)	PID (ppm)	Sample Type	Saturation					Bedrock Fracture Intensity					USCS Symbol	Lithographic Column	SOIL/ROCK DESCRIPTION	WELL DETAIL
						Dry	Moist	Wet	Massive (>3ft)	Slightly (1-3ft)	Moderately (.5-1ft)	Intensely (.1-.5ft)	Crushed (<0.1ft)						
0																Asphalt			
1																Sandy Gravel with some fines: dark brown, dry to moist, hard, loose (some cobbles and boulders).			
2																			
3																			
4																			
5	2	2	7	2.6	SS														
6			7																
7			6																
8			24																
9																			
10	2	1.5	33	1.6	SS														
11			29																
12			21																
13			20																
14																			
15	1	1	12	3.1	SS														
16			25																
17																			
18																			
19																			
20																			

NOTES: SS = Split Spoon Discrete Sample

DRILLING CONTRACTOR: Site Services Inc.

DRILLING METHOD: Hollow Stem Auger

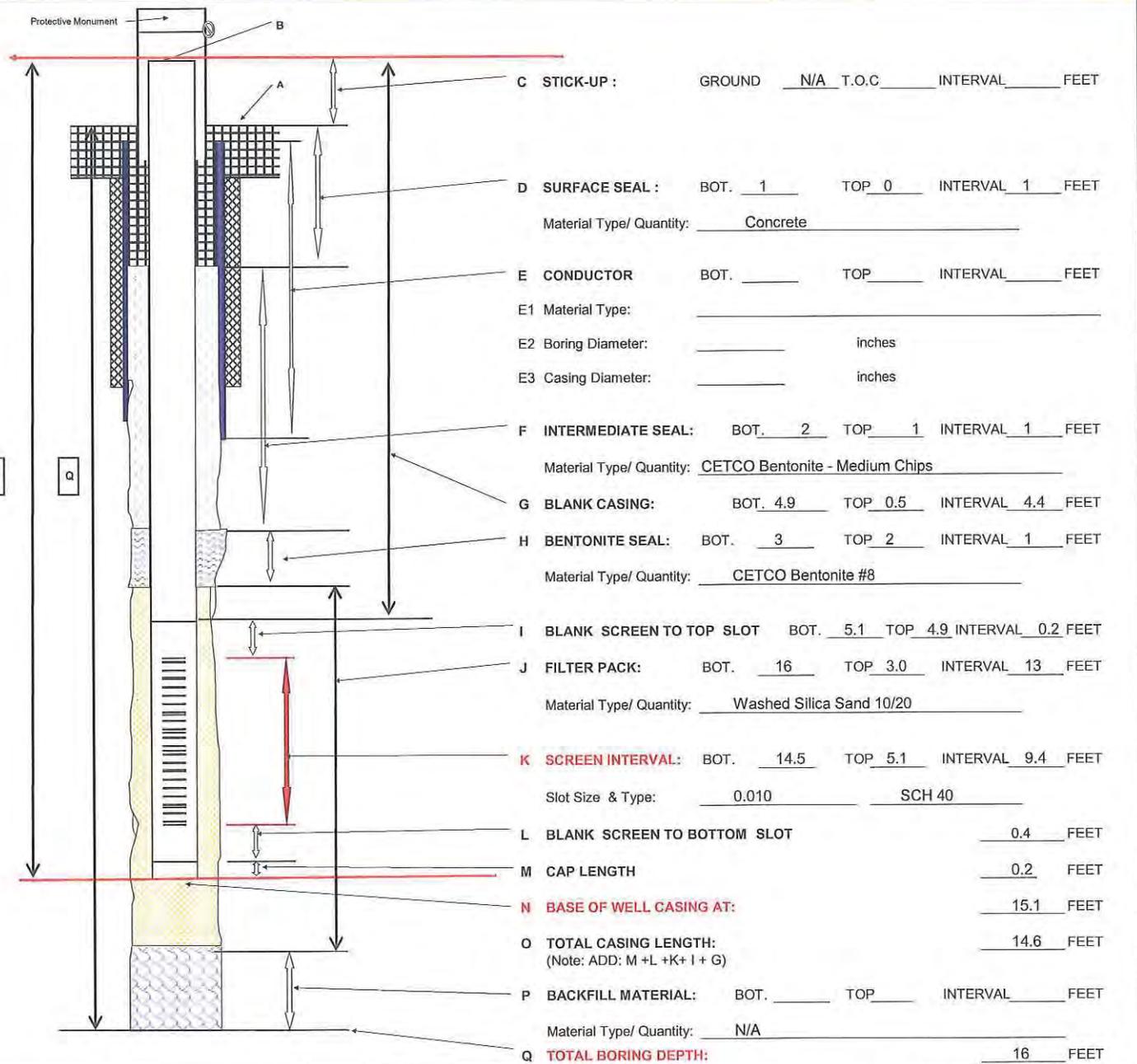
DRILLING EQUIPMENT: CME 75

SAMPLING METHOD: 2.5" x 24" Split Spoon

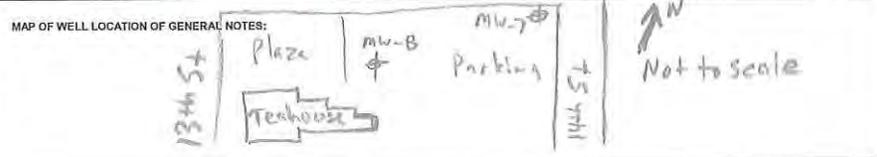


MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME: 13th Street Plaza	WELL NAME/ID: MW-7
LOCATION: 1770 13th Street Plaza Boulder, CO	A GROUND SURFACE ELEVATION: 5338.15 FT.-MSL
TYPE OF WELL: Monitoring Well	B TOP OF CASING ELEVATION: 5337.69 FT.-MSL
PERMIT NO.: NOI 051102-MH	NORTHING: 1248686.50 FEET
CASING DIAMETER: 2 INCHES	EASTING: 3062558.75 FEET
BORING DIAMETER: 8 INCHES	DATE DRILLED: 11/29/12
	DATE INSTALLED: 11/29/12



DRILLED BY: Site Services
LOGGED BY: M. Maguire
DRILLING METHOD: H.S.A ROTARY
 Stratex ODEX
SAMPLER TYPE & DIMENSIONS: 2.5" x 24" split spoon



I hereby certify that the information on this form is true and correct to the best of my knowledge.

SIGNATURE: *Michael Maguire* **FIRM:** USA Environment, LP

MONITORING WELL DEVELOPMENT LOG



Date: 1 Weather: Partly Cloudy
 Well ID: AW-7 Project No: S047-0A-C100
 Field Personnel: M. Maguire Subcontractor: Site Services

Well Summary:
 Depth to NAPL: NA Construction: 2" SCH40 PVC - 0.010 slots
 Initial Total Depth: 14.82 1 Purge Volume: 0.95
 Initial Depth to Water: 8.43 Casing Capacities: 2-inch=0.16 gal/ft; 4-inch=0.65 gal/ft
 Water Column Height: 5.99 6.5-inch=1.7 gal/ft; 8-inch=2.6 gal/ft; 10-inch=4.1 gal/ft
 Final Depth to Water: 8.51 surged 1115-1130
 Final Total Well Depth: 14.68 Purge Time: Start 1105 End 1220

Instrumentation:
 pH Meter (model): YSI 556 Calibrated with Buffers: ✓ 4 ✓ 7 10
 Conductivity Meter (model): YSI 556 Calibrated with Standard Solution: _____ mS/cm
 Turbidity Meter (model): NA Calibrated with: _____

Development Summary:
 Development method: Bailer 36" bailer & Pump (type) B/K pump Surge Block (type) PVC pipe with
 3 Purge Volume Calc: 2.85 surging tape at bottom

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1108	1	7.35	6.69	0.524	1.75	19.8	-	1	brown, silty
1113	2	7.44	6.88	0.466	2.83	18.5	-	2	lt brown, silty
1115-1130	<u>Surge</u>								
1135	6.1	6.78	6.92	0.407	4.48	41.1	-	6	" "
1144	8	6.63	6.88	0.375	3.24	39.6	-	8	" "
1156	14	6.58	6.85	0.311	2.91	28.6	-	14	" "
1159	<u>Surge</u>								
1210	28	6.53	6.72	0.313	2.86	36.6	-	28	" "
1216	20	6.26	6.71	0.301	3.16	39.4	-	20	" "
	28	6.52							

Final

Time	Well Volume	Temp (°C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity	Gallons Evacuated	Visual Appearance/Comments
1220	23	6.43	6.57	0.282	2.71	30.1	-	23	lt brown silty to slightly salty



PROJECT: City of Boulder - 13th Street Plaza		BORING ID: MW-8		1 of 1
LOCATION: 1770 13th Street, Boulder, Colorado		WELL ID: MW-8		
NORTHING (ft): 1248629.21	EASTING (ft): 3062452.37	WELL CONSTRUCTION DETAILS		
LOGGED BY: MPM				
DATE STARTED: 11/29/2012	DEPTH TO WATER (ft bgs): 8.82	TOTAL DEPTH (ft bgs): 16	Surface Seal (ft bgs): <u>0</u> to <u>1</u> Type: <u>concrete</u>	
DATE COMPLETED: 11/29/2012	GROUND SURFACE ELEV. (ft MSL): 5338.85	TOC ELEVATION (ft MSL): 5338.44	Bentonite Seal (ft bgs): <u>1</u> to <u>3.5</u> Type: <u>bentonite</u>	
	BORING DIAMETER (inches): 8	CASING DIAMETER (inches): 2	Filter Pack Interval (ft bgs): <u>3.5</u> to <u>16</u> Notes:	
			Screen Interval (ft bgs): <u>5.2</u> to <u>14.7</u>	

Depth (feet)	Sample Run (ft)	Sample Recovery (ft)	Density (blows/ft)	PID (ppm)	Sample Type	Saturation					Bedrock Fracture Intensity					USCS Symbol	Lithographic Column	SOIL/ROCK DESCRIPTION	WELL DETAIL
						Dry	Moist	Wet	Massive (>3ft)	Slightly (1-3ft)	Moderately (.5-1ft)	Intensely (.1-.5ft)	Crushed (<0.1ft)						
0																Asphalt			
1														GM		Silty Sand with minor gravel: brown, dry, loose, firm, no petroleum odor.			
2														SP		Sand (medium- to coarse-grained): tan to yellow, dry, loose, firm, no petroleum odor.			
3																			
4			3																
5	2	2	3	72.9	SS									ML		Silt: dark brown, moist, soft to firm, moderately dense, no petroleum odor.			
6			7																
7			8																
8																			
9																			
10	2	1	6	73.6	SS									GP		Silty Sandy Gravel: dark gray, moist, firm, loose, strong petroleum odor.			
11			20																
12			16																
13			17																
14																			
15																			
16	1	1	26	2.5	SS									SP		Sand (medium- to coarse-grained sand): brown, saturated, hard, moderately dense, slight petroleum odor.			
17			50																
18																			
19																			
20																			

NOTES: SS = Split Spoon Discrete Sample

DRILLING CONTRACTOR: Site Services Inc.

DRILLING METHOD: Hollow Stem Auger

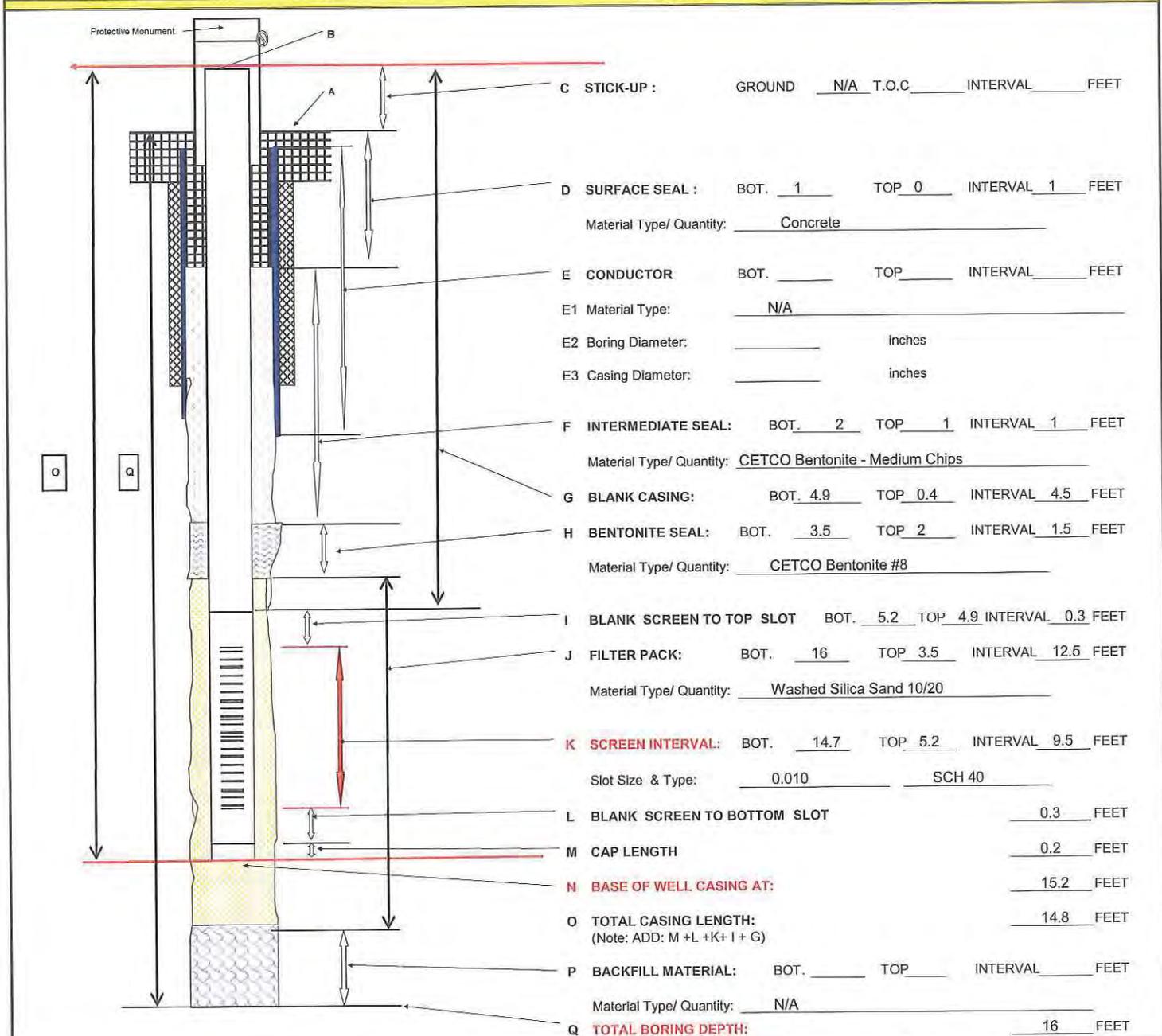
DRILLING EQUIPMENT: CME 75

SAMPLING METHOD: 2.5" x 24" Split Spoon



MONITORING WELL CONSTRUCTION DETAILS

FACILITY/PROJECT NAME: 13th Street Plaza	WELL NAME/ID: MW-8
LOCATION: 1770 13th Street Plaza Boulder, CO	A GROUND SURFACE ELEVATION: 5338.85 FT.-MSL
TYPE OF WELL: Monitoring Well	B TOP OF CASING ELEVATION: 5338.44 FT.-MSL
PERMIT NO.: NOI 051102-MH	NORTHING: 1248629.21 FEET
CASING DIAMETER: 2 INCHES	EASTING: 3062452.37 FEET
BORING DIAMETER: 8 INCHES	DATE DRILLED: 11/29/12
	DATE INSTALLED: 11/29/12



DRILLED BY: Site Services LOGGED BY: M. Maguire DRILLING METHOD: H.S.A <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> Stratex <input type="checkbox"/> ODEX <input type="checkbox"/> SAMPLER TYPE & DIMENSIONS: 2.5" x 24" split spoon	MAP OF WELL LOCATION OF GENERAL NOTES:
I hereby certify that the information on this form is true and correct to the best of my knowledge.	
SIGNATURE: 	FIRM: USA Environment, LP



1770 13th Street, Boulder, Colorado
Summary of 2012 Subsurface Investigation Activities

Attachment C

Surveyor's Report



MONITOR WELL COORDINATE TABLE

1770 13TH STREET, BOULDER

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 30,
TOWNSHIP 1 NORTH, RANGE 70 WEST OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO
SHEET 1 OF 2

Coordinate Table – modified ground

DESCRIPTION	NORTHING	EASTING	ELEVATION	RIM ELEV.
INT-A	5000.00	3000.00	5339.54	
MW-1	4701.40	2746.26	5341.52	5341.89
MW-2	4779.63	2876.98	5339.52	5339.75
MW-3	4750.58	2941.69	5338.09	5338.41
MW-4	4581.75	2898.25	5336.64	5336.94
MW-5	4675.03	2920.08	5338.18	5338.50
MW-6	4680.68	3030.08	5337.53	5337.80
MW-7	4769.98	3006.65	5337.69	5338.15
MW-8	4712.67	2900.23	5338.44	5338.85
N. PIPE (W)	4666.74	2926.15	5335.46	
N. PIPE (E)	4685.60	2995.19	5334.32	
N. PIPE ELBOW	4686.23	2996.68	5334.28	
S. PIPE (W)	4661.20	2931.52	5335.42	
S. PIPE (E)	4681.10	3002.56	5334.20	
S. PIPE ELBOW	4681.94	3003.99	5334.18	

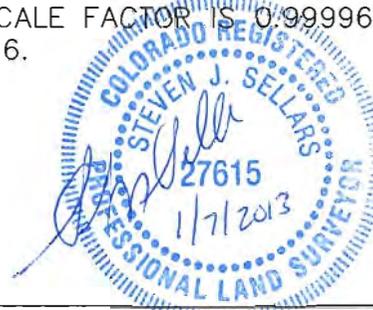
UNITS ARE IN U.S. SURVEY FEET (3937 YARDS = 3600 METERS)
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM

INT-A IS A #5 REBAR LOCATED AT THE INTERSECTION OF 14TH STREET AND CANYON BOULEVARD, CITY OF BOULDER BENCHMARK "T". INT-A HAS BEEN USED AS THE BASE POINT BETWEEN THE STATE PLANE COORDINATES AND MODIFIED GROUND COORDINATES. THE SEA LEVEL FACTOR IS 0.999745. THE SCALE FACTOR IS 0.99996515. THE COMBINED FACTOR IS 0.99971016.

– Flagstaff Surveying Inc. –

Table Mesa Shopping Center
637 South Broadway, Suite C
Boulder, Colorado 80305
303-499-9737

16793A-2 JANUARY 7, 2013



PREPARED BY STEVEN SELLARS
COLORADO PLS 27615

MONITOR WELL COORDINATE TABLE

1770 13TH STREET, BOULDER

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 30,
TOWNSHIP 1 NORTH, RANGE 70 WEST OF THE 6TH P.M.,
COUNTY OF BOULDER, STATE OF COLORADO
SHEET 2 OF 2

Coordinate Table – Approximate State Plane

DESCRIPTION	NORTHING	EASTING	ELEVATION	RIM ELEV.
INT-A	1248916.45	3062552.11	5339.54	
MW-1	1248617.94	3062298.44	5341.52	5341.89
MW-2	1248696.15	3062429.13	5339.52	5339.75
MW-3	1248667.11	3062493.82	5338.09	5338.41
MW-4	1248498.33	3062450.39	5336.64	5336.94
MW-5	1248591.57	3062472.21	5338.18	5338.50
MW-6	1248597.22	3062582.18	5337.53	5337.80
MW-7	1248686.50	3062558.75	5337.69	5338.15
MW-8	1248629.21	3062452.37	5338.44	5338.85
N. PIPE (W)	1248583.29	3062478.28	5335.46	
N. PIPE (E)	1248602.14	3062547.30	5334.32	
N. PIPE ELBOW	1248602.77	3062548.79	5334.28	
S. PIPE (W)	1248577.75	3062483.65	5335.42	
S. PIPE (E)	1248597.65	3062554.67	5334.20	
S. PIPE ELBOW	1248598.49	3062556.10	5334.18	

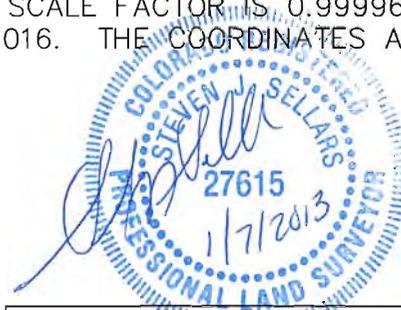
UNITS ARE IN U.S. SURVEY FEET (3937 YARDS = 3600 METERS)
ELEVATIONS ARE BASED UPON THE NAVD 88 DATUM
COLORADO COORDINATE SYSTEM OF 1983 NORTH ZONE

INT-A IS A #5 REBAR LOCATED AT THE INTERSECTION OF 14TH STREET AND CANYON BOULEVARD, CITY OF BOULDER BENCHMARK "T". INT-A HAS BEEN USED AS THE BASE POINT BETWEEN THE STATE PLANE COORDINATES AND MODIFIED GROUND COORDINATES. THE SEA LEVEL FACTOR IS 0.999745. THE SCALE FACTOR IS 0.99996515. THE COMBINED FACTOR IS 0.99971016. THE COORDINATES AT "INT-A" ARE APPROXIMATE ONLY.

— Flagstaff Surveying Inc. —

Table Mesa Shopping Center
637 South Broadway, Suite C
Boulder, Colorado 80305
303-499-9737

16793A-2 JANUARY 7, 2013



PREPARED BY STEVEN SELLARS
COLORADO PLS 27615

12/3/12
12-16793

N

12" INSIDE DIAMETER

(30)

5335.40

NORTH
PIPE

5334.52

(16)

(E)

(17)

ELBOW

5334.28

(29)

5335.42

SOUTH
PIPE

5334.20

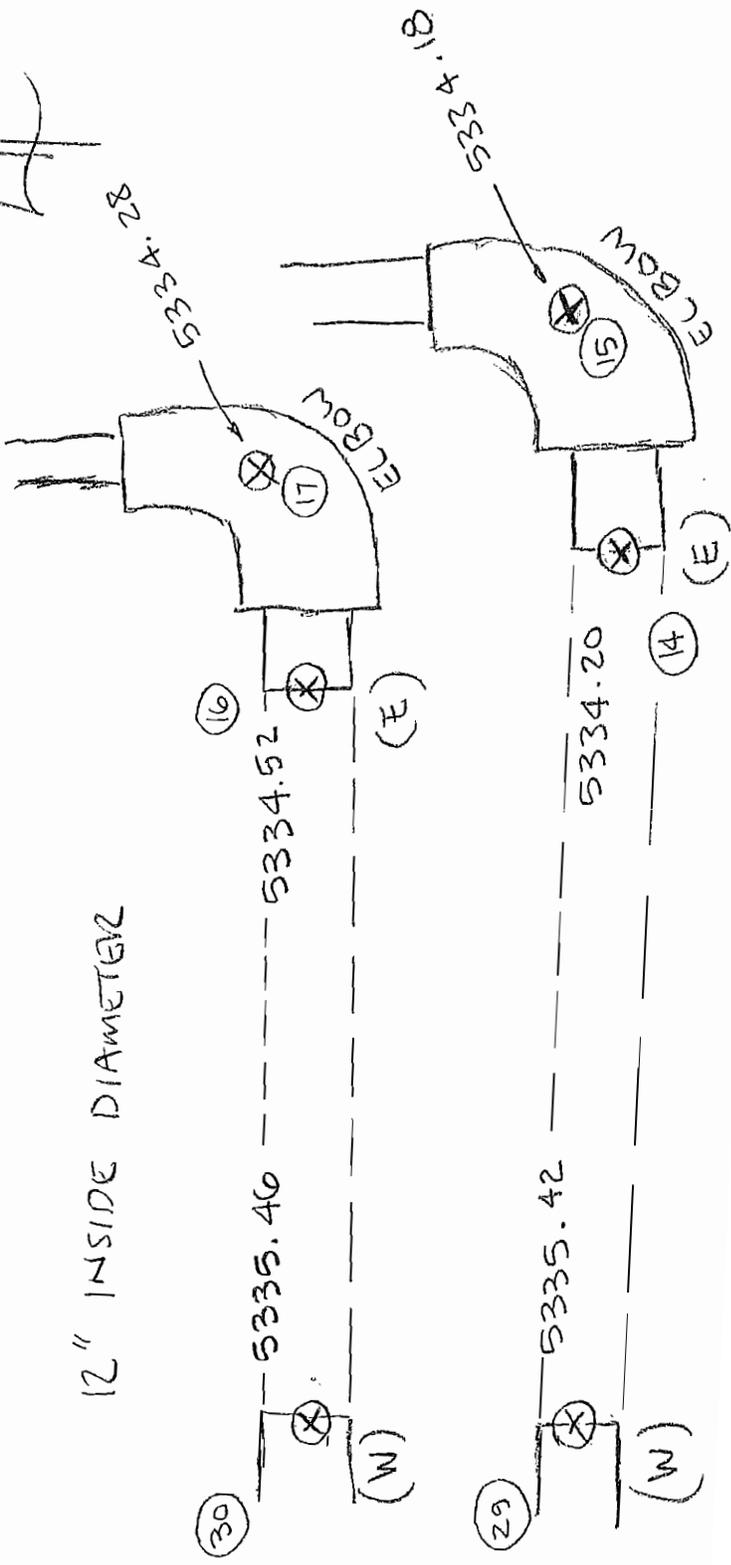
(14)

(E)

(15)

ELBOW

5334.18





1770 13th Street, Boulder, Colorado
Summary of 2012 Subsurface Investigation Activities

Attachment D

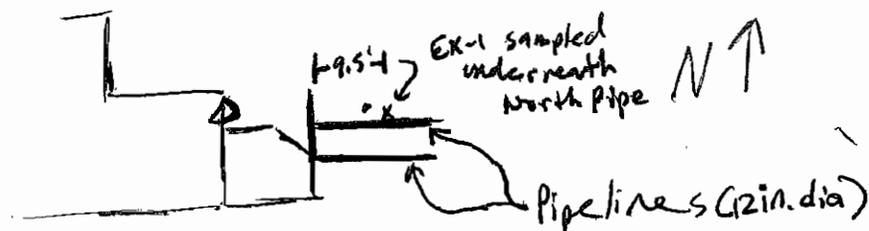
Soil Sampling Sheets



SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/27/12 SAMPLE ID: COB-EX1
 PROJECT NAME: 1770 17th St. TEMPERATURE: 60 °F or °C
 FIELD PERSONNEL: JHC, MPM, CEL WEATHER: partly cloudy

OBSERVATIONS:



Black stained clay like material - composed more-so of silts.

FIELD MEASUREMENTS:

PTD - Bag Sample = 201 ppm.
strong odor

SAMPLES COLLECTED:

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-EX1-112712</u>	<u>1315</u>	<u>1 4oz Jar</u>	<u>-</u>	<u>8260 VOC</u>
		<u>1 4oz Jar.</u>	<u>-</u>	<u>8270 SVOC</u>

COMMENTS:

COB-EX1-112712 sampled underneath pipe at joint 9.5' east of P
west side of excavation. Sample was collected ± 8.5" below bottom
of pipe.

Submitted for 24hr TAT

Less than or equal to:
 Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/29/12 SAMPLE ID: EX-2

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: SHK, CEL, MPM WEATHER: Mostly sunny

OBSERVATIONS:

Strong odors observed.
Sample consisted of sands from assumed cobble/sand river bed layer.
grey staining.

FIELD MEASUREMENTS:

Collected at ~ 6.5' bgs in sands + cobbles w/ grey color, strong odors observed. PID = 216-864 ppm.

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COB-EX2-112912</u>	<u>0755</u>	<u>2 X 4oz</u>	<u>NA</u>	<u>P260 WSR</u> <u>P270 SWR</u>

COMMENTS:

Standard TAT

~~Less than or equal to:~~

Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 112912 SAMPLE ID: EX-3

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 ^{°F} or ^{°C}

FIELD PERSONNEL: JHC, CEL, MPM WEATHER: partly sunny

OBSERVATIONS:

Collected at 8.5' Bgs in area of sands and cobbles, assumed riverbed area. with grey staining and strong hydrocarbon odors.

FIELD MEASUREMENTS:

Collected @ 8.5' in sands + cobbles w/ grey staining, and strong odor
PID = 926 ppm

SAMPLES COLLECTED:

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
COB-EX3-112912	1030	2X 4oz	NA	\$260 VOC \$270 SVOC

COMMENTS:

Standard TAT

Less than or equal to:

Signature: 

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 1/29/12 SAMPLE ID: COR-EX4-112912

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 ^{°F} or ^{°C}

FIELD PERSONNEL: JHK, CEL, MAM WEATHER: Mostly Sunny

OBSERVATIONS:

Collected at 7' bgs in area of sands + cobbles - assumed river bed
No odors detected, color and appearance looked similar to more noticeable areas of impact further to the west.

FIELD MEASUREMENTS:

7' bgs in grey sands + cobbles, no odor Location - 43' from west wall

SAMPLES COLLECTED:

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
COR-EX4-112912	1350	2x 4oz	NA	\$260 VEC / \$270 SWC
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Submitted for standard TAT

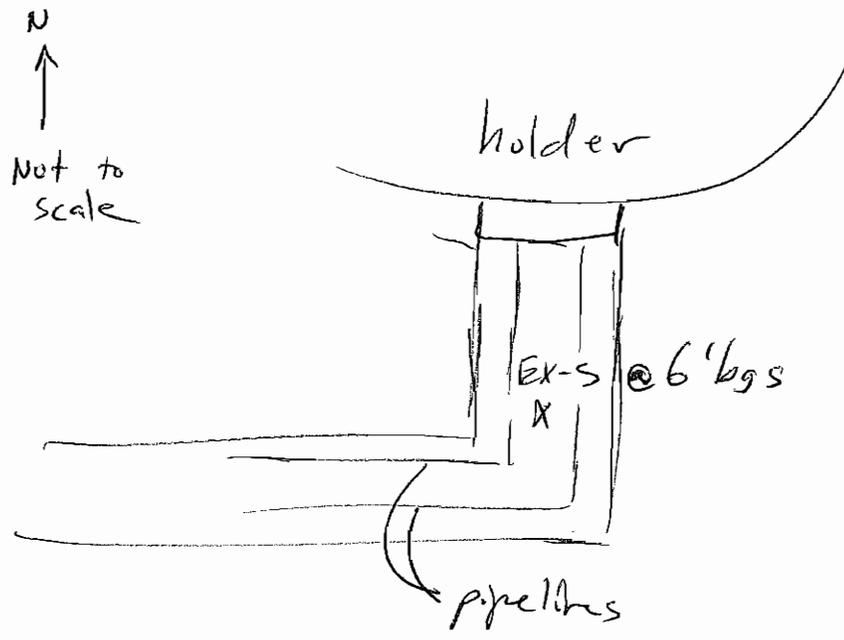
Less than or equal to.

Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/4/12 SAMPLE ID: EX-5
 PROJECT NAME: 1770 13th St. TEMPERATURE: 50 °F or °C
 FIELD PERSONNEL: JHK + MPM WEATHER: Mostly Sunny

OBSERVATIONS:



FIELD MEASUREMENTS:

PID = 16.8 ppm

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>CR-EX5-120412</u>	_____	<u>2 X 4 ounce Jcr</u>	<u>None</u>	<u>PERVOC + CRD PAH + DRD</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Signature: _____

SOIL SAMPLING FIELD DATA SHEET

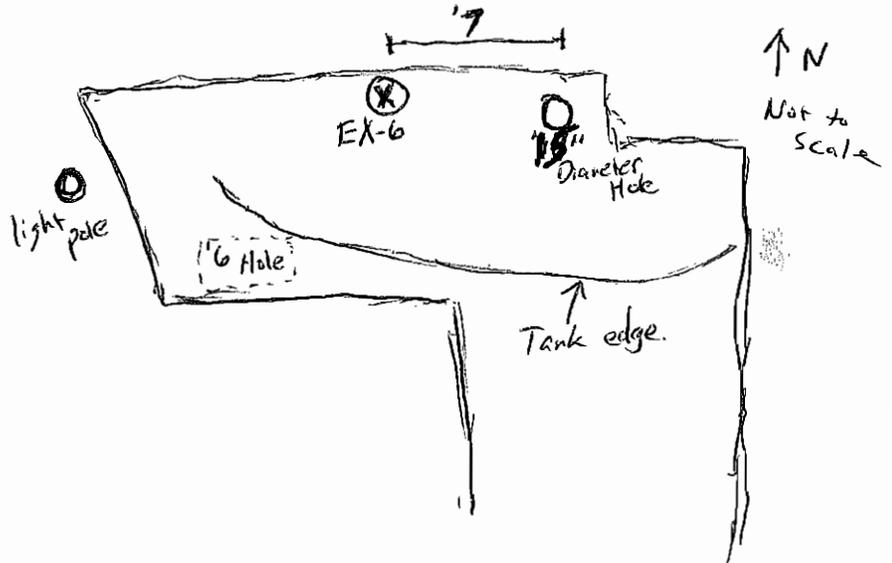
PROJECT NUMBER: 5047 - CR-C100 DATE: 12/5/12 SAMPLE ID: EX-6

PROJECT NAME: 13th St Plaza TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: MPM WEATHER: partly cloudy warm

OBSERVATIONS:

- Silty, Sandy Gravel w/ some debris
- Dark Gray Color
- 1.25 bgs sampled



FIELD MEASUREMENTS:

PID = 91.2 ppm

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>CWB EX-6-120512</u>	<u>10:10</u>	<u>2 4oz Glass Jars</u>	<u>-</u>	

COMMENTS:

Signature: _____

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/27/12 SAMPLE ID: COB-FILL1-112712
PROJECT NAME: 1770 15th St. TEMPERATURE: 55 °F or °C
FIELD PERSONNEL: JHC, CEL, MPM WEATHER: Partly cloudy

OBSERVATIONS:

Fill 1 Collected from Western Stockpile staged on 11/27/12
Mostly loose, dry silts & sands with some cobble.
No noticeable odor.

FIELD MEASUREMENTS:

PID = 1.9 PPM Comp. Sample.

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COB-FILL1-112712</u>	<u>1405</u>	<u>2x 4oz Jar</u>	<u>NA</u>	<u>P260VOC/P270SVOC</u>
<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

COMMENTS:

Sample submitted for 24 TAT analysis.

~~Less than or equal to.~~
Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/27/12 SAMPLE ID: COB-FILL 2-112712

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 ^{°F} or °C

FIELD PERSONNEL: J. Carrington, C. Luginiski, M. Maguire WEATHER: Partly Cloudy

OBSERVATIONS:

Fill 2 collected from Eastern Stock pile staged 11/27/12

Material consists of ~ 3' top layer over 1st 15 feet of
Pipe runs from W → E.

~~Submitted~~ Dry soils, free of visual/olfactory impacts.
Mostly silts + sands with some cobbles

FIELD MEASUREMENTS:

PEO = 1.5 PPM Composite Sample

SAMPLES COLLECTED:

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-FILL 2-112712</u>	<u>1410</u>	<u>2 x 40oz Jar</u>	<u>NA</u>	<u>P260 VOC</u>
<u>" "</u>	<u>" "</u>	<u>2 x 40oz Jar</u>	<u>NA</u>	<u>#260 P270-5 VOC</u>

COMMENTS:

Submitted for 24 RUSH analysis to Summit Analytical

Less than or equal to:
Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/28/12 SAMPLE ID: COB-FILL3-112812

PROJECT NAME: 1770 13th St. TEMPERATURE: 50 °F or °C

FIELD PERSONNEL: JHR, CEL, MPM WEATHER: Overcast

OBSERVATIONS:

Dry soils, dark brown no noticeable odors. Mostly silts + sands with some cobble.

FIELD MEASUREMENTS:

PI0 = 1.1 ppm

SAMPLES COLLECTED:

	<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
COB-	<u>FILL3-112812</u>	<u>1400</u>	<u>2x4oz Jar</u>	<u>NA</u>	<u>P210VOC/P270SVOC</u>

COMMENTS:

Composite sample collected from stockpile "West" generated on 11/28/12
Submitted for 24 HR Analysis TAT

Less than or equal to:
Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/28/12 SAMPLE ID: COR - FILL4-112812
PROJECT NAME: 1770 13th St. TEMPERATURE: 50 °F or °C
FIELD PERSONNEL: JHC, CEL, MPM WEATHER: overcast

OBSERVATIONS:

Mostly dry soils collected from 0-3' bgs, mostly silt & sands with some cobbles. Dark brown in color. No noticeable odors.

FIELD MEASUREMENTS:

PEO = 2.8 ppm

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COR-FILL4-112812</u>	<u>1405</u>	<u>2 x 4oz Jar</u>	<u>NA</u>	<u>1260.10c/1270.50c</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Composite sample collected from stock pile ^{East} west generated on 11/28/12
Submitted for 24hr TAT analysis

Less than or equal to:

Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/29/12 SAMPLE ID: FILL-6400
PROJECT NAME: 1770 13th St. TEMPERATURE: 60 ^(°F) or °C
FIELD PERSONNEL: JHC, CEL, MPM WEATHER: ~~S~~ Mostly clear

OBSERVATIONS:

FIELD MEASUREMENTS:

No PID measurements collected

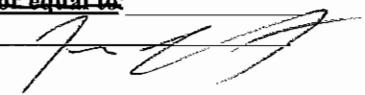
SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COB-FILL 6400-112912</u>	<u>1510</u>	<u>2 x 4oz Jar</u>	<u>NA</u>	<u>8260 VOC</u> <u>8270 SVOC</u>

COMMENTS:

Fill material collected at construction site at 6400 Arapahoe in Boulder.
Submit for 24 hr. TAT

Less than or equal to:

Signature: 

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/29/12 SAMPLE ID: FILL-95
PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C
FIELD PERSONNEL: SHK, COE, MPM WEATHER: Mostly Sunny

OBSERVATIONS:

FIELD MEASUREMENTS:

No PID measurements collected.

SAMPLES COLLECTED:

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COB-FILL-95-112912</u>	<u>1515</u>	<u>2 x 4/2</u>	<u>NA</u>	<u>P260 VWC 8270 SWC</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Collected fill material at construction site on 95th + Arroyo Ave
in Boulder.
Submit for 24 hr. TAT

Less than or equal to:
Signature: [Signature]

SOIL SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/27/12 SAMPLE ID: COB-SPSCALE-112712

PROJECT NAME: 1770 13th St TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: J. Carrington, M. Maguire, E. Kujawski WEATHER: Partly Cloudy

OBSERVATIONS:

Sample collected from scale residue from inside pipe walls.
Pipe segment was South Pipe Run - 1st exposed section to the west. Water (clear) discharged from pipe after separation from coupler.
Black flakey flakey scale has hydrocarbon odor to it.
Scale thickness ~ 1/8" - breaks apart easily.
Submitting only 1 4oz jar due to limited sample volume.
Scale material itself has hydrocarbon/solvent odor

FIELD MEASUREMENTS:

No PID reading collected

SAMPLES COLLECTED:

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-SPSCALE-112712-1350</u>	<u>1350</u>	<u>1-4oz Jar</u>	<u>NA</u>	<u>82608/82700 VOC SVOC</u>

COMMENTS:

Submitted to Summit Analytical Standard TAT

~~Less than or equal to:~~
Signature: [Signature]



1770 13th Street, Boulder, Colorado
Summary of 2012 Subsurface Investigation Activities

Attachment E

Laboratory Analytical Data Reports



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 11, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 11/27/12 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-EX1-112712	R211165-01	Soil	11/27/12 13:15	11/27/12 15:25
COB-FILL1-112712	R211165-02	Soil	11/27/12 14:05	11/27/12 15:25
COB-FILL2-112712	R211165-03	Soil	11/27/12 14:10	11/27/12 15:25
COB-SPSCALE-112712	R211165-04	Soil	11/27/12 13:50	11/27/12 15:25
COB-SPWATER-112712	R211165-05	Water	11/27/12 13:45	11/27/12 15:25

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 16:41

Summit Scientific

5.

741 Corporate Circle Suite 1 Golden, Colorado 80401
 303-277-8910 • 303-274-8933 Fax

Client: USA Environmental CP
 Address: 17301 W Colfax Ave Ste 152
 City/State/Zip: Golden, CO 80401
 Phone: 303-277-8910 Fax:
 Sampler Name: T. Callington
 Project Manager: Craig Lugowski
 E-Mail: clugowski@summit-sc.com
 Project Name: 1770 13th St
 Project Number: 5047

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For:	Special Instructions
COI-EX1-112712	11/27/12	1215	2	HCl HNO ₃ None	Air - Center Serial #		ROUGH TAT
COI-EX2-112712	11/27/12	1105	2	HCl HNO ₃ None	Other (Specify)		ROUGH TAT
COI-EX3-112712	11/27/12	1410	2	HCl HNO ₃ None	Other (Specify)		ROUGH TAT
COI-SP16-112712	11/27/12	1250	1	HCl HNO ₃ None	Other (Specify)		ROUGH TAT
COI-SP17-112712	11/27/12	1345	4	HCl HNO ₃ None	Other (Specify)		ROUGH TAT

Retiquished by: [Signature]	Date/Time: 11/27/12 16:25	Received by: [Signature]	Date/Time: 11/27/12 15:25	Turn Around Time (Check):	72 Hours <input type="checkbox"/>	Notes: If sample volume for COI-SP16-112712 is insufficient to run 2-ml/100, 100-ml only.
Retiquished by: [Signature]	Date/Time: 11/27/12 16:25	Received by: [Signature]	Date/Time: 11/27/12 15:25	Same Day <input checked="" type="checkbox"/>	Standard <input type="checkbox"/>	
Retiquished by: [Signature]	Date/Time: 11/27/12 16:25	Received by: [Signature]	Date/Time: 11/27/12 15:25	48 Hours <input type="checkbox"/>		

Retiquished by: [Signature]	Date/Time: 11/27/12 16:25	Received in Lab by: [Signature]	Date/Time: 11/27/12 15:25	Sample Integrity: Temperature Upon Receipt: 27°C
				Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-EX1-112712
R211165-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.00	ug/kg	1	2112716	11/27/12	11/28/12	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-EX1-112712
R211165-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/27/12	11/28/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	277	5.00	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	127	5.00	"	"	"	"	"	"
p-Isopropyltoluene	88.0	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
n-Propylbenzene	57.1	5.00	"	"	"	"	"	"
Styrene	ND	10.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	105	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	338	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	105	10.0	"	"	"	"	"	"
o-Xylene	225	5.00	"	"	"	"	"	"

Date Sampled: 11/27/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %		30-150	"	"	"	"	
Surrogate: Toluene-d8		104 %		30-150	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %		30-150	"	"	"	"	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-EX1-112712
R211165-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/27/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	790	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01, J
Acenaphthylene	1700	1300	"	"	"	"	"	"	R-01
Anthracene	970	1300	"	"	"	"	"	"	R-01, J
Bis(2-ethylhexyl)adipate	ND	1300	"	"	"	"	"	"	R-01
Benzo (a) anthracene	800	1300	"	"	"	"	"	"	R-01, J
Benzo (b) fluoranthene	230	1300	"	"	"	"	"	"	R-01, J
Benzo (k) fluoranthene	340	1300	"	"	"	"	"	"	R-01, J
Benzo (g,h,i) perylene	110	1300	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	440	1300	"	"	"	"	"	"	R-01, J
Benzyl alcohol	ND	1300	"	"	"	"	"	"	R-01
Pyridine	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroethoxy)methane	ND	1300	"	"	"	"	"	"	R-01
N-Nitrosodimethylamine	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroethyl)ether	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroisopropyl)ether	ND	1300	"	"	"	"	"	"	R-01
Bis(2-ethylhexyl)phthalate	ND	1300	"	"	"	"	"	"	R-01
4-Bromophenyl phenyl ether	ND	1300	"	"	"	"	"	"	R-01
Butyl benzyl phthalate	76	1300	"	"	"	"	"	"	R-01, J
4-Chloroaniline	ND	1300	"	"	"	"	"	"	R-01
4-Chloro-3-methylphenol	ND	1300	"	"	"	"	"	"	R-01
2-Chloronaphthalene	ND	1300	"	"	"	"	"	"	R-01
2-Chlorophenol	ND	1300	"	"	"	"	"	"	R-01
4-Chlorophenyl phenyl ether	ND	1300	"	"	"	"	"	"	R-01
Chrysene	860	1300	"	"	"	"	"	"	R-01, J
Dibenz (a,h) anthracene	ND	1300	"	"	"	"	"	"	R-01
Dibenzofuran	270	1300	"	"	"	"	"	"	R-01, J
Di-n-butyl phthalate	ND	1300	"	"	"	"	"	"	R-01
1,2-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
1,3-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
1,4-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
2,4-Dichlorophenol	ND	1300	"	"	"	"	"	"	R-01

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-EX1-112712
R211165-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Compound	Result	Limit	Unit	1	2112719	11/27/12	11/28/12	EPA 8270D	Remarks
Diethyl phthalate	ND	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
2,4-Dimethylphenol	ND	1300	"	"	"	"	"	"	R-01
Carbazole	ND	1300	"	"	"	"	"	"	R-01
Dimethyl phthalate	ND	1300	"	"	"	"	"	"	R-01
4,6-Dinitro-2-methylphenol	ND	1300	"	"	"	"	"	"	R-01
2,4-Dinitrophenol	ND	1300	"	"	"	"	"	"	R-01
Azobenzene	ND	1300	"	"	"	"	"	"	R-01
2,4-Dinitrotoluene	67	1300	"	"	"	"	"	"	R-01, J
2,6-Dinitrotoluene	ND	1300	"	"	"	"	"	"	R-01
Di-n-octyl phthalate	28	1300	"	"	"	"	"	"	R-01, J
Fluoranthene	870	1300	"	"	"	"	"	"	R-01, J
Fluorene	2100	1300	"	"	"	"	"	"	R-01
Hexachlorobenzene	ND	1300	"	"	"	"	"	"	R-01
Hexachlorobutadiene	ND	1300	"	"	"	"	"	"	R-01
Hexachlorocyclopentadiene	ND	1300	"	"	"	"	"	"	R-01
Hexachloroethane	ND	1300	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	55	1300	"	"	"	"	"	"	R-01, J
Isophorone	2000	1300	"	"	"	"	"	"	R-01
1-Methylnaphthalene	ND	1300	"	"	"	"	"	"	R-01
2-Methylphenol	ND	1300	"	"	"	"	"	"	R-01
4-Methylphenol	ND	1300	"	"	"	"	"	"	R-01
Naphthalene	24000	13000	"	10	"	"	"	"	R-01
1,4-Dinitrobenzene	ND	1300	"	1	"	"	"	"	R-01
2-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
1,3-Dinitrobenzene	ND	1300	"	"	"	"	"	"	R-01
3-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
1,2-Dinitrobenzene	ND	1300	"	"	"	"	"	"	R-01
4-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
Nitrobenzene	180	1300	"	"	"	"	"	"	R-01, J
2-Nitrophenol	ND	1300	"	"	"	"	"	"	R-01
4-Nitrophenol	ND	1300	"	"	"	"	"	"	R-01
2,3,4,6-Tetrachlorophenol	ND	1300	"	"	"	"	"	"	R-01
N-Nitrosodi-n-propylamine	ND	1300	"	"	"	"	"	"	R-01
2,3,5,6-Tetrachlorophenol	ND	1300	"	"	"	"	"	"	R-01
Pentachlorophenol	ND	1300	"	"	"	"	"	"	R-01
Phenanthrene	3200	1300	"	"	"	"	"	"	R-01
Phenol	ND	1300	"	"	"	"	"	"	R-01

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 16:41

COB-EX1-112712
R211165-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Aniline	ND	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Pyrene	3000	1300	"	"	"	"	"	"	R-01
1,2,4-Trichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
2,4,5-Trichlorophenol	ND	1300	"	"	"	"	"	"	R-01
2,4,6-Trichlorophenol	ND	1300	"	"	"	"	"	"	R-01

Date Sampled: 11/27/12 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		38.2 %	30-150		"	"	"	"	R-01
Surrogate: Phenol-d6		38.1 %	30-150		"	"	"	"	R-01
Surrogate: Nitrobenzene-d5		190 %	30-150		"	"	"	"	R-01, S-02
Surrogate: 2-Fluorobiphenyl		73.0 %	30-150		"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol		34.9 %	30-150		"	"	"	"	R-01
Surrogate: Terphenyl-d14		110 %	30-150		"	"	"	"	R-01

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-FILL1-112712
R211165-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 14:05

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	5.00	ug/kg	1	2112716	11/27/12	11/27/12	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-FILL1-112712
R211165-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/27/12	11/27/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	ND	5.00	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	ND	5.00	"	"	"	"	"	"
p-Isopropyltoluene	ND	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
n-Propylbenzene	ND	5.00	"	"	"	"	"	"
Styrene	ND	10.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	ND	10.0	"	"	"	"	"	"
o-Xylene	ND	5.00	"	"	"	"	"	"

Date Sampled: 11/27/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	30-150		"	"	"	"	

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/11/12 16:41

COB-FILL1-112712
R211165-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene 95.6 % 30-150 2112716 11/27/12 11/27/12 EPA 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/27/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Acenaphthylene	1100	1300	"	"	"	"	"	"	R-01, J
Anthracene	320	1300	"	"	"	"	"	"	R-01, J
Bis(2-ethylhexyl)adipate	ND	1300	"	"	"	"	"	"	R-01
Benzo (a) anthracene	4200	1300	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	6800	1300	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	7600	1300	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	2400	1300	"	"	"	"	"	"	R-01
Benzo (a) pyrene	6500	1300	"	"	"	"	"	"	R-01
Benzyl alcohol	ND	1300	"	"	"	"	"	"	R-01
Pyridine	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroethoxy)methane	ND	1300	"	"	"	"	"	"	R-01
N-Nitrosodimethylamine	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroethyl)ether	ND	1300	"	"	"	"	"	"	R-01
Bis(2-chloroisopropyl)ether	ND	1300	"	"	"	"	"	"	R-01
Bis(2-ethylhexyl)phthalate	ND	1300	"	"	"	"	"	"	R-01
4-Bromophenyl phenyl ether	ND	1300	"	"	"	"	"	"	R-01
Butyl benzyl phthalate	ND	1300	"	"	"	"	"	"	R-01
4-Chloroaniline	ND	1300	"	"	"	"	"	"	R-01
4-Chloro-3-methylphenol	ND	1300	"	"	"	"	"	"	R-01
2-Chloronaphthalene	ND	1300	"	"	"	"	"	"	R-01
2-Chlorophenol	ND	1300	"	"	"	"	"	"	R-01
4-Chlorophenyl phenyl ether	ND	1300	"	"	"	"	"	"	R-01
Chrysene	4900	1300	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	410	1300	"	"	"	"	"	"	R-01, J
Dibenzofuran	ND	1300	"	"	"	"	"	"	R-01
Di-n-butyl phthalate	ND	1300	"	"	"	"	"	"	R-01
1,2-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
1,3-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
1,4-Dichlorobenzene	ND	1300	"	"	"	"	"	"	R-01

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R211165-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

2,4-Dichlorophenol	ND	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Diethyl phthalate	ND	1300	"	"	"	"	"	"	R-01
2,4-Dimethylphenol	ND	1300	"	"	"	"	"	"	R-01
Carbazole	ND	1300	"	"	"	"	"	"	R-01
Dimethyl phthalate	ND	1300	"	"	"	"	"	"	R-01
4,6-Dinitro-2-methylphenol	ND	1300	"	"	"	"	"	"	R-01
2,4-Dinitrophenol	ND	1300	"	"	"	"	"	"	R-01
Azobenzene	ND	1300	"	"	"	"	"	"	R-01
2,4-Dinitrotoluene	41	1300	"	"	"	"	"	"	R-01, J
2,6-Dinitrotoluene	ND	1300	"	"	"	"	"	"	R-01
Di-n-octyl phthalate	ND	1300	"	"	"	"	"	"	R-01
Fluoranthene	3800	1300	"	"	"	"	"	"	R-01
Fluorene	93	1300	"	"	"	"	"	"	R-01, J
Hexachlorobenzene	ND	1300	"	"	"	"	"	"	R-01
Hexachlorobutadiene	ND	1300	"	"	"	"	"	"	R-01
Hexachlorocyclopentadiene	ND	1300	"	"	"	"	"	"	R-01
Hexachloroethane	ND	1300	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	3600	1300	"	"	"	"	"	"	R-01
Isophorone	ND	1300	"	"	"	"	"	"	R-01
1-Methylnaphthalene	ND	1300	"	"	"	"	"	"	R-01
2-Methylphenol	ND	1300	"	"	"	"	"	"	R-01
4-Methylphenol	ND	1300	"	"	"	"	"	"	R-01
Naphthalene	ND	1300	"	"	"	"	"	"	R-01
1,4-Dinitrobenzene	ND	1300	"	"	"	"	"	"	R-01
2-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
1,3-Dinitrobenzene	ND	1300	"	"	"	"	"	"	R-01
3-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
1,2-Dinitrobenzene	ND	1300	"	"	"	"	"	"	R-01
4-Nitroaniline	ND	1300	"	"	"	"	"	"	R-01
Nitrobenzene	ND	1300	"	"	"	"	"	"	R-01
2-Nitrophenol	ND	1300	"	"	"	"	"	"	R-01
4-Nitrophenol	ND	1300	"	"	"	"	"	"	R-01
2,3,4,6-Tetrachlorophenol	ND	1300	"	"	"	"	"	"	R-01
N-Nitrosodi-n-propylamine	ND	1300	"	"	"	"	"	"	R-01
2,3,5,6-Tetrachlorophenol	ND	1300	"	"	"	"	"	"	R-01
Pentachlorophenol	ND	1300	"	"	"	"	"	"	R-01
Phenanthrene	560	1300	"	"	"	"	"	"	R-01, J

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R211165-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	440	1300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01, J
Aniline	ND	1300	"	"	"	"	"	"	R-01
Pyrene	10000	1300	"	"	"	"	"	"	R-01
1,2,4-Trichlorobenzene	ND	1300	"	"	"	"	"	"	R-01
2,4,5-Trichlorophenol	ND	1300	"	"	"	"	"	"	R-01
2,4,6-Trichlorophenol	ND	1300	"	"	"	"	"	"	R-01

Date Sampled: 11/27/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		64.4 %		30-150	"	"	"	"	R-01
Surrogate: Phenol-d6		80.3 %		30-150	"	"	"	"	R-01, S-02
Surrogate: Nitrobenzene-d5		159 %		30-150	"	"	"	"	R-01
Surrogate: 2-Fluorobiphenyl		150 %		30-150	"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol		74.1 %		30-150	"	"	"	"	R-01
Surrogate: Terphenyl-dl4		201 %		30-150	"	"	"	"	R-01, S-02

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COB-FILL2-112712
R211165-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.00	ug/kg	1	2112716	11/27/12	11/28/12	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	

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COB-FILL2-112712
R211165-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/27/12	11/28/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	ND	5.00	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	ND	5.00	"	"	"	"	"	"
p-Isopropyltoluene	ND	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
n-Propylbenzene	ND	5.00	"	"	"	"	"	"
Styrene	ND	10.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	ND	10.0	"	"	"	"	"	"
o-Xylene	ND	5.00	"	"	"	"	"	"

Date Sampled: 11/27/12 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		106 %	30-150		"	"	"	"	

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R211165-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene 97.0 % 30-150 2112716 11/27/12 11/28/12 EPA 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/27/12 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	2000	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Acenaphthylene	1900	2000	"	"	"	"	"	"	R-01, J
Anthracene	350	2000	"	"	"	"	"	"	R-01, J
Bis(2-ethylhexyl)adipate	ND	2000	"	"	"	"	"	"	R-01
Benzo (a) anthracene	2600	2000	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	4800	2000	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	4700	2000	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	1300	2000	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	3900	2000	"	"	"	"	"	"	R-01
Benzyl alcohol	ND	2000	"	"	"	"	"	"	R-01
Pyridine	ND	2000	"	"	"	"	"	"	R-01
Bis(2-chloroethoxy)methane	ND	2000	"	"	"	"	"	"	R-01
N-Nitrosodimethylamine	ND	2000	"	"	"	"	"	"	R-01
Bis(2-chloroethyl)ether	ND	2000	"	"	"	"	"	"	R-01
Bis(2-chloroisopropyl)ether	ND	2000	"	"	"	"	"	"	R-01
Bis(2-ethylhexyl)phthalate	ND	2000	"	"	"	"	"	"	R-01
4-Bromophenyl phenyl ether	ND	2000	"	"	"	"	"	"	R-01
Butyl benzyl phthalate	ND	2000	"	"	"	"	"	"	R-01
4-Chloroaniline	ND	2000	"	"	"	"	"	"	R-01
4-Chloro-3-methylphenol	ND	2000	"	"	"	"	"	"	R-01
2-Chloronaphthalene	ND	2000	"	"	"	"	"	"	R-01
2-Chlorophenol	ND	2000	"	"	"	"	"	"	R-01
4-Chlorophenyl phenyl ether	ND	2000	"	"	"	"	"	"	R-01
Chrysene	3200	2000	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	420	2000	"	"	"	"	"	"	R-01, J
Dibenzofuran	ND	2000	"	"	"	"	"	"	R-01
Di-n-butyl phthalate	ND	2000	"	"	"	"	"	"	R-01
1,2-Dichlorobenzene	ND	2000	"	"	"	"	"	"	R-01
1,3-Dichlorobenzene	ND	2000	"	"	"	"	"	"	R-01
1,4-Dichlorobenzene	ND	2000	"	"	"	"	"	"	R-01

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COB-FILL2-112712
R211165-03 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

2,4-Dichlorophenol	ND	2000	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Diethyl phthalate	ND	2000	"	"	"	"	"	"	R-01
2,4-Dimethylphenol	ND	2000	"	"	"	"	"	"	R-01
Carbazole	ND	2000	"	"	"	"	"	"	R-01
Dimethyl phthalate	ND	2000	"	"	"	"	"	"	R-01
4,6-Dinitro-2-methylphenol	ND	2000	"	"	"	"	"	"	R-01
2,4-Dinitrophenol	ND	2000	"	"	"	"	"	"	R-01
Azobenzene	ND	2000	"	"	"	"	"	"	R-01
2,4-Dinitrotoluene	ND	2000	"	"	"	"	"	"	R-01
2,6-Dinitrotoluene	ND	2000	"	"	"	"	"	"	R-01
Di-n-octyl phthalate	ND	2000	"	"	"	"	"	"	R-01
Fluoranthene	2100	2000	"	"	"	"	"	"	R-01
Fluorene	150	2000	"	"	"	"	"	"	R-01, J
Hexachlorobenzene	ND	2000	"	"	"	"	"	"	R-01
Hexachlorobutadiene	ND	2000	"	"	"	"	"	"	R-01
Hexachlorocyclopentadiene	ND	2000	"	"	"	"	"	"	R-01
Hexachloroethane	360	2000	"	"	"	"	"	"	R-01, J
Indeno (1,2,3-cd) pyrene	2300	2000	"	"	"	"	"	"	R-01
Isophorone	ND	2000	"	"	"	"	"	"	R-01
1-Methylnaphthalene	ND	2000	"	"	"	"	"	"	R-01
2-Methylphenol	ND	2000	"	"	"	"	"	"	R-01
4-Methylphenol	ND	2000	"	"	"	"	"	"	R-01
Naphthalene	ND	2000	"	"	"	"	"	"	R-01
1,4-Dinitrobenzene	ND	2000	"	"	"	"	"	"	R-01
2-Nitroaniline	ND	2000	"	"	"	"	"	"	R-01
1,3-Dinitrobenzene	ND	2000	"	"	"	"	"	"	R-01
3-Nitroaniline	ND	2000	"	"	"	"	"	"	R-01
1,2-Dinitrobenzene	ND	2000	"	"	"	"	"	"	R-01
4-Nitroaniline	ND	2000	"	"	"	"	"	"	R-01
Nitrobenzene	ND	2000	"	"	"	"	"	"	R-01
2-Nitrophenol	ND	2000	"	"	"	"	"	"	R-01
4-Nitrophenol	ND	2000	"	"	"	"	"	"	R-01
2,3,4,6-Tetrachlorophenol	ND	2000	"	"	"	"	"	"	R-01
N-Nitrosodi-n-propylamine	ND	2000	"	"	"	"	"	"	R-01
2,3,5,6-Tetrachlorophenol	ND	2000	"	"	"	"	"	"	R-01
Pentachlorophenol	ND	2000	"	"	"	"	"	"	R-01
Phenanthrene	370	2000	"	"	"	"	"	"	R-01, J

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COB-FILL2-112712
R211165-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	200	2000	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01, J
Aniline	ND	2000	"	"	"	"	"	"	R-01
Pyrene	5400	2000	"	"	"	"	"	"	R-01
1,2,4-Trichlorobenzene	ND	2000	"	"	"	"	"	"	R-01
2,4,5-Trichlorophenol	ND	2000	"	"	"	"	"	"	R-01
2,4,6-Trichlorophenol	ND	2000	"	"	"	"	"	"	R-01

Date Sampled: 11/27/12 14:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		33.6 %	30-150		"	"	"	"	R-01
Surrogate: Phenol-d6		42.7 %	30-150		"	"	"	"	R-01
Surrogate: Nitrobenzene-d5		86.0 %	30-150		"	"	"	"	R-01
Surrogate: 2-Fluorobiphenyl		81.5 %	30-150		"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol		52.9 %	30-150		"	"	"	"	R-01
Surrogate: Terphenyl-dl4		109 %	30-150		"	"	"	"	R-01

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-SPSCALE-112712
R211165-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	7530	500	ug/kg	100	2112716	11/27/12	11/28/12	EPA 8260B	
Bromobenzene	ND	5.00	"	1	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	

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Project Manager: Craig Lugowski

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COB-SPSCALE-112712
R211165-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/27/12	11/28/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	39700	500	"	100	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	1	"	"	"	"
Isopropylbenzene	548	5.00	"	"	"	"	"	"
p-Isopropyltoluene	198	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
n-Propylbenzene	1290	500	"	100	"	"	"	"
Styrene	ND	10.0	"	1	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	25400	500	"	100	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	1	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	625	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	33500	1000	"	100	"	"	"	"
o-Xylene	14300	500	"	"	"	"	"	"

Date Sampled: 11/27/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %		30-150	"	"	"	"	
Surrogate: Toluene-d8		99.0 %		30-150	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %		30-150	"	"	"	"	

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Reported:
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COB-SPSCALE-112712
R211165-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/27/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	15000	3300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
Acenaphthylene	95000	33000	"	10	"	"	"	"	R-01
Anthracene	15000	3300	"	1	"	"	"	"	R-01
Bis(2-ethylhexyl)adipate	ND	3300	"	"	"	"	"	"	R-01
Benzo (a) anthracene	15000	3300	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	6000	3300	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	6900	3300	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	1600	3300	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	8300	3300	"	"	"	"	"	"	R-01
Benzyl alcohol	ND	3300	"	"	"	"	"	"	R-01
Pyridine	ND	3300	"	"	"	"	"	"	R-01
Bis(2-chloroethoxy)methane	ND	3300	"	"	"	"	"	"	R-01
N-Nitrosodimethylamine	ND	3300	"	"	"	"	"	"	R-01
Bis(2-chloroethyl)ether	ND	3300	"	"	"	"	"	"	R-01
Bis(2-chloroisopropyl)ether	ND	3300	"	"	"	"	"	"	R-01
Bis(2-ethylhexyl)phthalate	ND	3300	"	"	"	"	"	"	R-01
4-Bromophenyl phenyl ether	ND	3300	"	"	"	"	"	"	R-01
Butyl benzyl phthalate	ND	3300	"	"	"	"	"	"	R-01
4-Chloroaniline	ND	3300	"	"	"	"	"	"	R-01
4-Chloro-3-methylphenol	360	3300	"	"	"	"	"	"	R-01, J
2-Chloronaphthalene	ND	3300	"	"	"	"	"	"	R-01
2-Chlorophenol	ND	3300	"	"	"	"	"	"	R-01
4-Chlorophenyl phenyl ether	ND	3300	"	"	"	"	"	"	R-01
Chrysene	13000	3300	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	790	3300	"	"	"	"	"	"	R-01, J
Dibenzofuran	3900	3300	"	"	"	"	"	"	R-01
Di-n-butyl phthalate	ND	3300	"	"	"	"	"	"	R-01
1,2-Dichlorobenzene	ND	3300	"	"	"	"	"	"	R-01
1,3-Dichlorobenzene	ND	3300	"	"	"	"	"	"	R-01
1,4-Dichlorobenzene	ND	3300	"	"	"	"	"	"	R-01
2,4-Dichlorophenol	ND	3300	"	"	"	"	"	"	R-01
Diethyl phthalate	ND	3300	"	"	"	"	"	"	R-01

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Project Number: 5047
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COB-SPSCALE-112712
R211165-04 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Compound	Result	Method	Unit	Sample	Date	Date	Method	Result
2,4-Dimethylphenol	ND	3300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D R-01
Carbazole	970	3300	"	"	"	"	"	R-01, J
Dimethyl phthalate	ND	3300	"	"	"	"	"	R-01
4,6-Dinitro-2-methylphenol	ND	3300	"	"	"	"	"	R-01
2,4-Dinitrophenol	ND	3300	"	"	"	"	"	R-01
Azobenzene	210	3300	"	"	"	"	"	R-01, J
2,4-Dinitrotoluene	890	3300	"	"	"	"	"	R-01, J
2,6-Dinitrotoluene	ND	3300	"	"	"	"	"	R-01
Di-n-octyl phthalate	ND	3300	"	"	"	"	"	R-01
Fluoranthene	12000	3300	"	"	"	"	"	R-01
Fluorene	48000	33000	"	10	"	"	"	R-01
Hexachlorobenzene	ND	3300	"	1	"	"	"	R-01
Hexachlorobutadiene	ND	3300	"	"	"	"	"	R-01
Hexachlorocyclopentadiene	ND	3300	"	"	"	"	"	R-01
Hexachloroethane	ND	3300	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	3100	3300	"	"	"	"	"	R-01, J
Isophorone	1500	3300	"	"	"	"	"	R-01, J
1-Methylnaphthalene	330000	330000	"	100	"	"	"	R-01
2-Methylphenol	150	3300	"	1	"	"	"	R-01, J
4-Methylphenol	130	3300	"	"	"	"	"	R-01, J
Naphthalene	570000	330000	"	100	"	"	"	R-01
1,4-Dinitrobenzene	ND	3300	"	1	"	"	"	R-01
2-Nitroaniline	1200	3300	"	"	"	"	"	R-01, J
1,3-Dinitrobenzene	3800	3300	"	"	"	"	"	R-01
3-Nitroaniline	ND	3300	"	"	"	"	"	R-01
1,2-Dinitrobenzene	ND	3300	"	"	"	"	"	R-01
4-Nitroaniline	690	3300	"	"	"	"	"	R-01, J
Nitrobenzene	2500	3300	"	"	"	"	"	R-01, J
2-Nitrophenol	ND	3300	"	"	"	"	"	R-01
4-Nitrophenol	660	3300	"	"	"	"	"	R-01, J
2,3,4,6-Tetrachlorophenol	ND	3300	"	"	"	"	"	R-01
N-Nitrosodi-n-propylamine	ND	3300	"	"	"	"	"	R-01
2,3,5,6-Tetrachlorophenol	ND	3300	"	"	"	"	"	R-01
Pentachlorophenol	ND	3300	"	"	"	"	"	R-01
Phenanthrene	92000	33000	"	10	"	"	"	R-01
Phenol	1700	3300	"	1	"	"	"	R-01, J
Aniline	ND	3300	"	"	"	"	"	R-01
Pyrene	32000	33000	"	10	"	"	"	R-01, J

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 12/11/12 16:41

COB-SPSCALE-112712
R211165-04 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

1,2,4-Trichlorobenzene	ND	3300	ug/kg	1	2112719	11/27/12	11/28/12	EPA 8270D	R-01
2,4,5-Trichlorophenol	ND	3300	"	"	"	"	"	"	R-01
2,4,6-Trichlorophenol	760	3300	"	"	"	"	"	"	R-01, J

Date Sampled: 11/27/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		43.8 %	30-150		"	"	"	"	R-01
Surrogate: Phenol-d6		42.9 %	30-150		"	"	"	"	R-01
Surrogate: Nitrobenzene-d5		166 %	30-150		"	"	"	"	R-01, S-02
Surrogate: 2-Fluorobiphenyl		84.4 %	30-150		"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol		28.4 %	30-150		"	"	"	"	R-01
Surrogate: Terphenyl-d14		145 %	30-150		"	"	"	"	R-01

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-SPWATER-112712
R211165-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/27/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3170	100	ug/l	100	2112717	11/27/12	11/28/12	EPA 8260B	
Bromobenzene	ND	1.00	"	1	"	"	11/28/12	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	

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Reported:
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COB-SPWATER-112712
R211165-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,3-Dichloropropene	ND	1.00	ug/l	1	2112717	11/27/12	11/28/12	EPA 8260B
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"
Ethylbenzene	1480	100	"	100	"	"	11/28/12	"
Hexachlorobutadiene	ND	1.00	"	1	"	"	11/28/12	"
Tert-amyl methyl ether	ND	1.00	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	69.9	1.00	"	"	"	"	"	"
p-Isopropyltoluene	9.75	1.00	"	"	"	"	"	"
Methylene Chloride	ND	5.00	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"
n-Propylbenzene	17.0	1.00	"	"	"	"	"	"
Styrene	ND	1.00	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"
Tetrachloroethene	ND	1.00	"	"	"	"	"	"
Toluene	2980	100	"	100	"	"	11/28/12	"
1,2,3-Trichlorobenzene	ND	1.00	"	1	"	"	11/28/12	"
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"
Trichloroethene	ND	1.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"
1,3,5-Trimethylbenzene	65.8	1.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"
Vinyl chloride	ND	1.00	"	"	"	"	"	"
m,p-Xylene	1150	200	"	100	"	"	11/28/12	"
o-Xylene	532	100	"	"	"	"	"	"

Date Sampled: 11/27/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.0 %	49.7-150		"	"	11/28/12	"	
Surrogate: Toluene-d8		104 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50.1-150		"	"	"	"	

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Reported:
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COB-SPWATER-112712
R211165-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/27/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	19.5	10.0	ug/l	1	2112718	11/27/12	11/28/12	EPA 8270D	
Acenaphthylene	144	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Benzyl alcohol	ND	20.0	"	"	"	"	"	"	
Benzoic acid	ND	30.0	"	"	"	"	"	"	
Pyridine	ND	20.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	20.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	
4-Chloroaniline	ND	20.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	20.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

COB-SPWATER-112712
R211165-05 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Compound Name	Result	Concentration (ug/l)	Unit	Sample ID	Date 1	Date 2	Method
2,4-Dichlorophenol	ND	10.0	ug/l	1	2112718	11/27/12	EPA 8270D
Diethyl phthalate	ND	10.0	"	"	"	"	"
2,4-Dimethylphenol	26.9	10.0	"	"	"	"	"
Carbazole	ND	20.0	"	"	"	"	"
Dimethyl phthalate	ND	10.0	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	30.0	"	"	"	"	"
2,4-Dinitrophenol	ND	30.0	"	"	"	"	"
Azobenzene	ND	20.0	"	"	"	"	"
2,4-Dinitrotoluene	ND	10.0	"	"	"	"	"
2,6-Dinitrotoluene	13.9	10.0	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"
Fluoranthene	ND	10.0	"	"	"	"	"
Fluorene	39.1	10.0	"	"	"	"	"
Hexachlorobenzene	ND	10.0	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"
Hexachloroethane	15.3	10.0	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"
Isophorone	ND	10.0	"	"	"	"	"
2-Methylnaphthalene	1190	1000	"	100	"	"	"
2,3,5,6-Tetrachlorophenol	ND	20.0	"	1	"	"	"
2-Methylphenol	29.7	10.0	"	"	"	"	"
4-Methylphenol	126	10.0	"	"	"	"	"
Naphthalene	7210	1000	"	100	"	"	"
1,2-Dinitrobenzene	ND	20.0	"	1	"	"	"
2-Nitroaniline	ND	30.0	"	"	"	"	"
1,3-Dinitrobenzene	ND	20.0	"	"	"	"	"
3-Nitroaniline	ND	30.0	"	"	"	"	"
1,4-Dinitrobenzene	ND	20.0	"	"	"	"	"
4-Nitroaniline	ND	30.0	"	"	"	"	"
Nitrobenzene	ND	10.0	"	"	"	"	"
2-Nitrophenol	ND	10.0	"	"	"	"	"
4-Nitrophenol	ND	30.0	"	"	"	"	"
1-Methylnaphthalene	ND	20.0	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	20.0	"	"	"	"	"
Pentachlorophenol	ND	30.0	"	"	"	"	"

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 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

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 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 16:41

COB-SPWATER-112712
R211165-05 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Phenanthrene	39.1	10.0	ug/l	1	2112718	11/27/12	11/28/12	EPA 8270D
Phenol	ND	10.0	"	"	"	"	"	"
Aniline	ND	20.0	"	"	"	"	"	"
Pyrene	ND	10.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"

Date Sampled: 11/27/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		30.9 %	10-100		"	"	"	"	
Surrogate: Phenol-d6		16.4 %	10-100		"	"	"	"	
Surrogate: Nitrobenzene-d5		166 %	30.7-131		"	"	"	"	S-02
Surrogate: 2-Fluorobiphenyl		47.4 %	18.2-157		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		96.5 %	23.3-100		"	"	"	"	
Surrogate: Terphenyl-d14		93.7 %	18.7-150		"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2112716 - EPA 5030 Soil MS

Blank (2112716-BLK1)

Prepared & Analyzed: 11/27/12

Benzene	ND	5.00	ug/kg
Bromobenzene	ND	5.00	"
Bromochloromethane	ND	5.00	"
Bromodichloromethane	ND	5.00	"
Bromoform	ND	5.00	"
Bromomethane	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	5.00	"
tert-Butylbenzene	ND	5.00	"
Carbon tetrachloride	ND	5.00	"
Chlorobenzene	ND	5.00	"
Chloroethane	ND	5.00	"
Chloroform	ND	5.00	"
Chloromethane	ND	15.0	"
2-Chlorotoluene	ND	5.00	"
4-Chlorotoluene	ND	5.00	"
Chlorodibromomethane	ND	10.0	"
1,2-Dibromo-3-chloropropane	ND	15.0	"
1,2-Dibromoethane (EDB)	ND	5.00	"
Dibromomethane	ND	5.00	"
1,2-Dichlorobenzene	ND	5.00	"
1,3-Dichlorobenzene	ND	5.00	"
1,4-Dichlorobenzene	ND	5.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	5.00	"
Tert-amyl methyl ether	ND	5.00	"
1,2-Dichloroethane (EDC)	ND	5.00	"
1,1-Dichloroethene	ND	5.00	"
Tert-butyl alcohol	ND	20.0	"
Ethyl tert-butyl ether	ND	10.0	"
cis-1,2-Dichloroethene	ND	5.00	"
trans-1,2-Dichloroethene	ND	5.00	"
Di-isopropyl ether	ND	5.00	"
Methyl tert-butyl ether	ND	5.00	"
1,2-Dichloropropane	ND	5.00	"
1,3-Dichloropropane	ND	5.00	"
2,2-Dichloropropane	ND	10.0	"
1,1-Dichloropropene	ND	5.00	"

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Golden CO, 80401

Project: 1770 13th St
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Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Blank (2112716-BLK1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	ND	5.00	ug/kg							
trans-1,3-Dichloropropene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	10.0	"							
Methylene Chloride	ND	15.0	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	10.0	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	5.00	"							
Toluene	ND	5.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,2-Trichloroethane	ND	5.00	"							
1,1,1-Trichloroethane	ND	5.00	"							
Trichloroethene	ND	5.00	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	10.0	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	5.00	"							
m,p-Xylene	ND	10.0	"							
o-Xylene	ND	5.00	"							
Surrogate: 1,2-Dichloroethane-d4	41.7		"	39.7		105	30-150			
Surrogate: Toluene-d8	39.8		"	40.0		99.4	30-150			
Surrogate: 4-Bromofluorobenzene	38.8		"	40.0		97.0	30-150			

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Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2112716 - EPA 5030 Soil MS

LCS (2112716-BS1)

Prepared & Analyzed: 11/27/12

Benzene	148	5.00	ug/kg	150		98.4	58-130			
Bromobenzene	149	5.00	"	150		99.7	87-115			
Bromochloromethane	150	5.00	"	150		100	82-122			
Bromodichloromethane	151	5.00	"	150		101	84-119			
Bromoform	132	5.00	"	150		88.2	76-119			
Bromomethane	138	10.0	"	150		92.2	39-152			
n-Butylbenzene	154	5.00	"	150		103	70-131			
sec-Butylbenzene	150	5.00	"	150		100	74-124			
tert-Butylbenzene	152	5.00	"	150		101	77-121			
Carbon tetrachloride	147	5.00	"	150		98.1	66-127			
Chlorobenzene	156	5.00	"	150		104	82-120			
Chloroethane	148	5.00	"	150		98.4	63-126			
Chloroform	146	5.00	"	150		97.3	82-120			
Chloromethane	140	15.0	"	150		93.5	57-133			
2-Chlorotoluene	148	5.00	"	150		98.4	82-117			
4-Chlorotoluene	148	5.00	"	150		98.4	81-119			
Chlorodibromomethane	141	10.0	"	150		93.8	82-124			
1,2-Dibromo-3-chloropropane	151	15.0	"	150		100	62-128			
1,2-Dibromoethane (EDB)	162	5.00	"	150		108	86-122			
Dibromomethane	153	5.00	"	150		102	83-124			
1,2-Dichlorobenzene	160	5.00	"	150		106	84-120			
1,3-Dichlorobenzene	155	5.00	"	150		103	81-118			
1,4-Dichlorobenzene	151	5.00	"	150		100	80-118			
Dichlorodifluoromethane	142	5.00	"	150		95.0	25-141			
Tert-amyl methyl ether	144	5.00	"	149		96.5	50-147			
1,1-Dichloroethane	146	5.00	"	150		97.5	78-120			
1,2-Dichloroethane (EDC)	154	5.00	"	150		103	81-125			
Tert-butyl alcohol	774	20.0	"	750		103	64-127			
1,1-Dichloroethene	141	5.00	"	150		93.8	71-122			
cis-1,2-Dichloroethene	152	5.00	"	150		101	84-121			
Ethyl tert-butyl ether	145	10.0	"	150		96.3	80-122			
Di-isopropyl ether	144	5.00	"	150		96.3	78-120			
trans-1,2-Dichloroethene	144	5.00	"	150		96.3	77-125			
Methyl tert-butyl ether	145	5.00	"	150		96.5	77-124			
1,2-Dichloropropane	154	5.00	"	150		103	88-114			
1,3-Dichloropropane	158	5.00	"	150		105	86-122			
2,2-Dichloropropane	148	10.0	"	150		98.5	32-150			
1,1-Dichloropropene	150	5.00	"	150		100	71-123			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS (2112716-BS1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	154	5.00	ug/kg	150		102	74-125			
trans-1,3-Dichloropropene	144	5.00	"	150		95.9	72-126			
Ethylbenzene	156	5.00	"	150		104	74-139			
Hexachlorobutadiene	162	5.00	"	150		108	56-144			
Isopropylbenzene	149	5.00	"	150		99.1	72-124			
p-Isopropyltoluene	155	10.0	"	150		103	72-123			
Methylene Chloride	155	15.0	"	150		103	10-183			
n-Propylbenzene	147	5.00	"	150		98.3	76-121			
Styrene	150	10.0	"	150		100	76-133			
1,1,2,2-Tetrachloroethane	160	5.00	"	150		107	60-137			
1,1,1,2-Tetrachloroethane	160	5.00	"	150		106	86-121			
Tetrachloroethene	156	5.00	"	150		104	69-131			
Toluene	146	5.00	"	150		97.6	61-134			
1,2,3-Trichlorobenzene	192	5.00	"	150		128	63-142			
1,2,4-Trichlorobenzene	171	5.00	"	150		114	63-141			
1,1,2-Trichloroethane	162	5.00	"	150		108	75-136			
1,1,1-Trichloroethane	148	5.00	"	150		98.6	71-126			
Trichloroethene	153	5.00	"	150		102	86-118			
Trichlorofluoromethane	152	5.00	"	150		101	62-128			
1,2,3-Trichloropropane	161	10.0	"	150		107	80-118			
1,3,5-Trimethylbenzene	145	5.00	"	150		97.0	72-121			
1,2,4-Trimethylbenzene	147	5.00	"	150		98.1	78-126			
Vinyl chloride	157	5.00	"	150		105	63-134			
m,p-Xylene	299	10.0	"	300		99.6	73-137			
o-Xylene	149	5.00	"	150		99.4	73-141			
Surrogate: 1,2-Dichloroethane-d4	41.4		"	39.7		104	30-150			
Surrogate: Toluene-d8	40.0		"	40.0		99.9	30-150			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.6	30-150			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS Dup (2112716-BSD1)

Prepared & Analyzed: 11/27/12

Benzene	146	5.00	ug/kg	150		97.0	58-130	1.47	13	
Bromobenzene	145	5.00	"	150		96.6	87-115	3.10	10	
Bromochloromethane	145	5.00	"	150		96.9	82-122	3.25	15	
Bromodichloromethane	148	5.00	"	150		98.7	84-119	2.18	10	
Bromoform	124	5.00	"	150		82.7	76-119	6.53	12	
Bromomethane	133	10.0	"	150		88.6	39-152	4.05	21	
n-Butylbenzene	148	5.00	"	150		98.7	70-131	4.05	11	
sec-Butylbenzene	144	5.00	"	150		96.0	74-124	4.06	10	
tert-Butylbenzene	146	5.00	"	150		97.0	77-121	4.28	10	
Carbon tetrachloride	147	5.00	"	150		97.8	66-127	0.306	14	
Chlorobenzene	151	5.00	"	150		101	82-120	3.18	10	
Chloroethane	143	5.00	"	150		95.6	63-126	2.82	16	
Chloroform	146	5.00	"	150		97.6	82-120	0.226	15	
Chloromethane	135	15.0	"	150		90.0	57-133	3.81	16	
2-Chlorotoluene	144	5.00	"	150		96.0	82-117	2.47	11	
4-Chlorotoluene	144	5.00	"	150		96.1	81-119	2.37	10	
Chlorodibromomethane	134	10.0	"	150		89.3	82-124	4.89	11	
1,2-Dibromo-3-chloropropane	146	15.0	"	150		97.1	62-128	3.28	19	
1,2-Dibromoethane (EDB)	160	5.00	"	150		107	86-122	1.45	10	
Dibromomethane	148	5.00	"	150		98.5	83-124	3.59	13	
1,2-Dichlorobenzene	152	5.00	"	150		102	84-120	4.69	10	
1,3-Dichlorobenzene	148	5.00	"	150		98.8	81-118	4.51	10	
1,4-Dichlorobenzene	146	5.00	"	150		97.7	80-118	2.81	10	
Dichlorodifluoromethane	137	5.00	"	150		91.0	25-141	4.26	39	
1,1-Dichloroethane	146	5.00	"	150		97.2	78-120	0.247	16	
Tert-amyl methyl ether	143	5.00	"	149		96.0	50-147	0.503	16	
1,2-Dichloroethane (EDC)	155	5.00	"	150		104	81-125	0.931	15	
1,1-Dichloroethene	138	5.00	"	150		91.7	71-122	2.28	18	
Tert-butyl alcohol	697	20.0	"	750		93.0	64-127	10.4	19	
cis-1,2-Dichloroethene	148	5.00	"	150		98.6	84-121	2.44	18	
Ethyl tert-butyl ether	144	10.0	"	150		95.7	80-122	0.645	16	
trans-1,2-Dichloroethene	143	5.00	"	150		95.4	77-125	0.918	16	
Di-isopropyl ether	144	5.00	"	150		96.5	78-120	0.229	18	
Methyl tert-butyl ether	146	5.00	"	150		97.1	77-124	0.701	18	
1,2-Dichloropropane	149	5.00	"	150		99.6	88-114	3.30	10	
1,3-Dichloropropane	157	5.00	"	150		105	86-122	0.324	10	
2,2-Dichloropropane	140	10.0	"	150		93.4	32-150	5.27	20	
1,1-Dichloropropene	146	5.00	"	150		97.6	71-123	2.63	16	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS Dup (2112716-BSD1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	148	5.00	ug/kg	150		98.6	74-125	3.78	18	
trans-1,3-Dichloropropene	137	5.00	"	150		91.3	72-126	4.89	22	
Ethylbenzene	150	5.00	"	150		100	74-139	3.75	12	
Hexachlorobutadiene	153	5.00	"	150		102	56-144	5.35	10	
Isopropylbenzene	145	5.00	"	150		96.9	72-124	2.27	12	
p-Isopropyltoluene	147	10.0	"	150		98.2	72-123	4.97	10	
Methylene Chloride	153	15.0	"	150		102	10-183	1.29	29	
n-Propylbenzene	142	5.00	"	150		94.7	76-121	3.67	10	
Styrene	148	10.0	"	150		98.4	76-133	1.67	13	
1,1,2,2-Tetrachloroethane	150	5.00	"	150		100	60-137	6.47	14	
1,1,1,2-Tetrachloroethane	152	5.00	"	150		101	86-121	4.87	10	
Tetrachloroethene	152	5.00	"	150		101	69-131	2.30	12	
Toluene	141	5.00	"	150		94.3	61-134	3.48	16	
1,2,3-Trichlorobenzene	186	5.00	"	150		124	63-142	3.15	10	
1,2,4-Trichlorobenzene	162	5.00	"	150		108	63-141	5.38	10	
1,1,2-Trichloroethane	154	5.00	"	150		102	75-136	5.18	25	
1,1,1-Trichloroethane	144	5.00	"	150		96.3	71-126	2.34	15	
Trichloroethene	148	5.00	"	150		98.3	86-118	3.91	12	
Trichlorofluoromethane	153	5.00	"	150		102	62-128	0.923	17	
1,2,3-Trichloropropane	152	10.0	"	150		101	80-118	5.47	13	
1,3,5-Trimethylbenzene	142	5.00	"	150		94.3	72-121	2.76	10	
1,2,4-Trimethylbenzene	142	5.00	"	150		94.5	78-126	3.76	10	
Vinyl chloride	152	5.00	"	150		101	63-134	3.27	15	
m,p-Xylene	292	10.0	"	300		97.4	73-137	2.27	14	
o-Xylene	145	5.00	"	150		96.4	73-141	3.04	12	
Surrogate: 1,2-Dichloroethane-d4	41.2		"	39.7		104	30-150			
Surrogate: Toluene-d8	39.0		"	40.0		97.5	30-150			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.6	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike (2112716-MS1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
Benzene	115	5.00	ug/kg	150	ND	76.5	30-131			
Bromobenzene	97.8	5.00	"	150	ND	65.2	39-124			
Bromochloromethane	129	5.00	"	150	ND	85.8	62-121			
Bromodichloromethane	120	5.00	"	150	ND	79.9	51-120			
Bromoform	110	5.00	"	150	ND	73.2	52-125			
Bromomethane	119	10.0	"	150	ND	79.2	10-152			
n-Butylbenzene	60.7	5.00	"	150	ND	40.5	10-144			
sec-Butylbenzene	69.6	5.00	"	150	ND	46.4	10-140			
tert-Butylbenzene	82.3	5.00	"	150	ND	54.9	16-132			
Carbon tetrachloride	108	5.00	"	150	ND	71.9	46-125			
Chlorobenzene	104	5.00	"	150	ND	69.4	42-125			
Chloroethane	115	5.00	"	150	ND	76.7	46-125			
Chloroform	118	5.00	"	150	ND	78.4	57-118			
Chloromethane	114	15.0	"	150	ND	76.3	33-132			
2-Chlorotoluene	88.7	5.00	"	150	ND	59.1	30-125			
4-Chlorotoluene	86.5	5.00	"	150	ND	57.7	29-127			
Chlorodibromomethane	112	10.0	"	150	ND	74.8	54-124			
1,2-Dibromo-3-chloropropane	139	15.0	"	150	ND	93.0	10-175			
1,2-Dibromoethane (EDB)	137	5.00	"	150	ND	91.5	65-125			
Dibromomethane	139	5.00	"	150	ND	92.6	64-127			
1,2-Dichlorobenzene	92.7	5.00	"	150	ND	61.8	24-134			
1,3-Dichlorobenzene	82.6	5.00	"	150	ND	55.1	22-130			
1,4-Dichlorobenzene	84.6	5.00	"	150	ND	56.4	21-131			
Dichlorodifluoromethane	108	5.00	"	150	ND	71.8	47-117			
Tert-amyl methyl ether	130	5.00	"	149	ND	87.3	60-124			
1,1-Dichloroethane	117	5.00	"	150	ND	77.8	55-119			
1,2-Dichloroethane (EDC)	140	5.00	"	150	ND	93.4	65-124			
Tert-butyl alcohol	817	20.0	"	750	ND	109	64-131			
1,1-Dichloroethene	109	5.00	"	150	ND	72.6	42-145			
Ethyl tert-butyl ether	127	10.0	"	150	ND	84.4	60-119			
cis-1,2-Dichloroethene	119	5.00	"	150	ND	79.3	56-121			
Di-isopropyl ether	124	5.00	"	150	ND	82.6	40-132			
trans-1,2-Dichloroethene	111	5.00	"	150	ND	73.8	52-126			
Methyl tert-butyl ether	141	5.00	"	150	ND	93.6	64-124			
1,2-Dichloropropane	123	5.00	"	150	ND	81.7	61-115			
1,3-Dichloropropane	137	5.00	"	150	ND	91.1	66-123			
2,2-Dichloropropane	109	10.0	"	150	ND	72.7	35-127			
1,1-Dichloropropene	105	5.00	"	150	ND	70.0	52-119			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike (2112716-MS1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
cis-1,3-Dichloropropene	120	5.00	ug/kg	150	ND	80.2	47-122			
trans-1,3-Dichloropropene	115	5.00	"	150	ND	76.6	51-119			
Ethylbenzene	102	5.00	"	150	ND	67.9	22-153			
Hexachlorobutadiene	31.9	5.00	"	150	ND	21.3	10-149			
Isopropylbenzene	89.4	5.00	"	150	ND	59.6	18-135			
p-Isopropyltoluene	74.4	10.0	"	150	ND	49.6	12-132			
Methylene Chloride	127	15.0	"	150	ND	85.0	10-167			
n-Propylbenzene	81.2	5.00	"	150	ND	54.2	15-134			
Styrene	97.6	10.0	"	150	ND	65.1	33-135			
1,1,2,2-Tetrachloroethane	136	5.00	"	150	ND	90.5	10-166			
1,1,1,2-Tetrachloroethane	113	5.00	"	150	ND	75.6	49-123			
Tetrachloroethene	98.2	5.00	"	150	ND	65.4	33-134			
Toluene	108	5.00	"	150	ND	71.9	30-134			
1,2,3-Trichlorobenzene	81.2	5.00	"	150	ND	54.1	10-155			
1,2,4-Trichlorobenzene	68.0	5.00	"	150	ND	45.3	10-152			
1,1,2-Trichloroethane	140	5.00	"	150	ND	93.1	46-139			
1,1,1-Trichloroethane	110	5.00	"	150	ND	73.3	51-124			
Trichloroethene	110	5.00	"	150	ND	73.2	16-187			
Trichlorofluoromethane	122	5.00	"	150	ND	81.7	53-125			
1,2,3-Trichloropropane	145	10.0	"	150	ND	96.5	69-118			
1,3,5-Trimethylbenzene	87.9	5.00	"	150	ND	58.6	20-128			
1,2,4-Trimethylbenzene	86.2	5.00	"	150	ND	57.4	17-142			
Vinyl chloride	123	5.00	"	150	ND	82.1	50-134			
m,p-Xylene	197	10.0	"	300	ND	65.7	10-159			
o-Xylene	97.8	5.00	"	150	ND	65.2	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.4</i>		<i>"</i>	<i>39.7</i>		<i>117</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>39.8</i>		<i>"</i>	<i>40.0</i>		<i>99.6</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>37.5</i>		<i>"</i>	<i>40.0</i>		<i>93.8</i>	<i>30-150</i>			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike Dup (2112716-MSD1)

Source: R211165-02

Prepared & Analyzed: 11/27/12

Benzene	122	5.00	ug/kg	150	ND	81.5	30-131	6.38	34	
Bromobenzene	97.9	5.00	"	150	ND	65.3	39-124	0.123	21	
Bromochloromethane	141	5.00	"	150	ND	94.2	62-121	9.38	20	
Bromodichloromethane	127	5.00	"	150	ND	84.4	51-120	5.48	22	
Bromoform	114	5.00	"	150	ND	75.7	52-125	3.28	22	
Bromomethane	127	10.0	"	150	ND	84.8	10-152	6.83	90	
n-Butylbenzene	55.6	5.00	"	150	ND	37.0	10-144	8.88	52	
sec-Butylbenzene	66.0	5.00	"	150	ND	44.0	10-140	5.22	45	
tert-Butylbenzene	78.5	5.00	"	150	ND	52.3	16-132	4.78	33	
Carbon tetrachloride	112	5.00	"	150	ND	74.9	46-125	4.08	22	
Chlorobenzene	106	5.00	"	150	ND	70.7	42-125	1.83	18	
Chloroethane	126	5.00	"	150	ND	84.0	46-125	9.18	24	
Chloroform	124	5.00	"	150	ND	82.9	57-118	5.65	19	
Chloromethane	125	15.0	"	150	ND	83.6	33-132	9.15	18	
2-Chlorotoluene	86.0	5.00	"	150	ND	57.4	30-125	3.06	24	
4-Chlorotoluene	86.7	5.00	"	150	ND	57.8	29-127	0.208	24	
Chlorodibromomethane	114	10.0	"	150	ND	76.2	54-124	1.78	22	
1,2-Dibromo-3-chloropropane	144	15.0	"	150	ND	95.9	10-175	3.09	39	
1,2-Dibromoethane (EDB)	146	5.00	"	150	ND	97.3	65-125	6.19	22	
Dibromomethane	149	5.00	"	150	ND	99.5	64-127	7.12	19	
1,2-Dichlorobenzene	90.6	5.00	"	150	ND	60.4	24-134	2.36	26	
1,3-Dichlorobenzene	79.7	5.00	"	150	ND	53.2	22-130	3.55	27	
1,4-Dichlorobenzene	82.1	5.00	"	150	ND	54.8	21-131	2.95	25	
Dichlorodifluoromethane	115	5.00	"	150	ND	76.9	47-117	6.89	36	
Tert-amyl methyl ether	142	5.00	"	149	ND	95.4	60-124	8.92	40	
1,1-Dichloroethane	124	5.00	"	150	ND	82.9	55-119	6.35	22	
1,2-Dichloroethane (EDC)	149	5.00	"	150	ND	99.1	65-124	5.90	19	
Tert-butyl alcohol	894	20.0	"	750	ND	119	64-131	9.05	24	
1,1-Dichloroethene	116	5.00	"	150	ND	77.0	42-145	5.94	22	
cis-1,2-Dichloroethene	123	5.00	"	150	ND	82.0	56-121	3.37	21	
Ethyl tert-butyl ether	139	10.0	"	150	ND	92.8	60-119	9.42	38	
Di-isopropyl ether	133	5.00	"	150	ND	88.9	40-132	7.29	108	
trans-1,2-Dichloroethene	117	5.00	"	150	ND	78.0	52-126	5.56	22	
Methyl tert-butyl ether	152	5.00	"	150	ND	101	64-124	7.51	28	
1,2-Dichloropropane	133	5.00	"	150	ND	88.6	61-115	8.15	17	
1,3-Dichloropropane	144	5.00	"	150	ND	96.3	66-123	5.55	24	
2,2-Dichloropropane	114	10.0	"	150	ND	76.2	35-127	4.78	29	
1,1-Dichloropropene	110	5.00	"	150	ND	73.6	52-119	5.07	21	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike Dup (2112716-MSD1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
cis-1,3-Dichloropropene	130	5.00	ug/kg	150	ND	86.7	47-122	7.79	40	
trans-1,3-Dichloropropene	124	5.00	"	150	ND	82.4	51-119	7.27	52	
Ethylbenzene	104	5.00	"	150	ND	69.1	22-153	1.81	24	
Hexachlorobutadiene	29.4	5.00	"	150	ND	19.6	10-149	8.23	59	
Isopropylbenzene	89.2	5.00	"	150	ND	59.5	18-135	0.235	33	
p-Isopropyltoluene	69.4	10.0	"	150	ND	46.3	12-132	7.01	38	
Methylene Chloride	147	15.0	"	150	ND	97.9	10-167	14.1	102	
n-Propylbenzene	78.0	5.00	"	150	ND	52.0	15-134	4.03	37	
Styrene	99.9	10.0	"	150	ND	66.6	33-135	2.31	22	
1,1,2,2-Tetrachloroethane	142	5.00	"	150	ND	94.7	10-166	4.47	45	
1,1,1,2-Tetrachloroethane	121	5.00	"	150	ND	80.8	49-123	6.57	21	
Tetrachloroethene	97.0	5.00	"	150	ND	64.6	33-134	1.23	26	
Toluene	113	5.00	"	150	ND	75.4	30-134	4.67	30	
1,2,3-Trichlorobenzene	74.7	5.00	"	150	ND	49.8	10-155	8.35	40	
1,2,4-Trichlorobenzene	62.6	5.00	"	150	ND	41.7	10-152	8.23	42	
1,1,2-Trichloroethane	150	5.00	"	150	ND	100	46-139	7.13	34	
1,1,1-Trichloroethane	116	5.00	"	150	ND	77.1	51-124	5.05	22	
Trichloroethene	113	5.00	"	150	ND	75.1	16-187	2.64	19	
Trichlorofluoromethane	128	5.00	"	150	ND	85.6	53-125	4.73	20	
1,2,3-Trichloropropane	150	10.0	"	150	ND	99.9	69-118	3.42	23	
1,3,5-Trimethylbenzene	86.6	5.00	"	150	ND	57.7	20-128	1.51	31	
1,2,4-Trimethylbenzene	82.4	5.00	"	150	ND	55.0	17-142	4.41	40	
Vinyl chloride	131	5.00	"	150	ND	87.2	50-134	6.02	22	
m,p-Xylene	201	10.0	"	300	ND	67.1	10-159	2.23	68	
o-Xylene	103	5.00	"	150	ND	68.3	31-151	4.73	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.3</i>		<i>"</i>	<i>39.7</i>		<i>119</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.8</i>		<i>"</i>	<i>40.0</i>		<i>102</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>37.8</i>		<i>"</i>	<i>40.0</i>		<i>94.6</i>	<i>30-150</i>			

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USA Environmental CP
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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

Blank (2112717-BLK1)

Prepared & Analyzed: 11/27/12

Benzene	ND	1.00	ug/l
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	5.00	"
Bromodichloromethane	ND	2.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	1.00	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	5.00	"
Chloromethane	ND	1.00	"
Chlorodibromomethane	ND	1.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	1.00	"
1,2-Dibromoethane (EDB)	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	1.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane (EDC)	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"
cis-1,3-Dichloropropene	ND	1.00	"
trans-1,3-Dichloropropene	ND	1.00	"
Ethylbenzene	ND	1.00	"
Hexachlorobutadiene	ND	1.00	"
Tert-amyl methyl ether	ND	1.00	"

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2112717 - EPA 5030 Water MS

Blank (2112717-BLK1)

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	ND	10.0	ug/l								
Tert-butyl alcohol	ND	20.0	"								
Isopropylbenzene	ND	1.00	"								
Di-isopropyl ether	ND	5.00	"								
p-Isopropyltoluene	ND	1.00	"								
Methylene Chloride	ND	5.00	"								
Methyl tert-butyl ether	ND	5.00	"								
n-Propylbenzene	ND	1.00	"								
Styrene	ND	1.00	"								
1,1,2,2-Tetrachloroethane	ND	1.00	"								
1,1,1,2-Tetrachloroethane	ND	1.00	"								
Tetrachloroethene	ND	1.00	"								
Toluene	ND	1.00	"								
1,2,3-Trichlorobenzene	ND	1.00	"								
1,2,4-Trichlorobenzene	ND	1.00	"								
1,1,2-Trichloroethane	ND	1.00	"								
1,1,1-Trichloroethane	ND	1.00	"								
Trichloroethene	ND	1.00	"								
Trichlorofluoromethane	ND	1.00	"								
1,2,3-Trichloropropane	ND	1.00	"								
1,3,5-Trimethylbenzene	ND	1.00	"								
1,2,4-Trimethylbenzene	ND	1.00	"								
Vinyl chloride	ND	1.00	"								
m,p-Xylene	ND	2.00	"								
o-Xylene	ND	1.00	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.6</i>		<i>"</i>	<i>13.2</i>		<i>110</i>	<i>49.7-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.6</i>	<i>51-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.7</i>	<i>50.1-150</i>				

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS (2112717-BS1)

Prepared & Analyzed: 11/27/12

Benzene	49.4	1.00	ug/l	50.0		98.9	51-132			
Bromobenzene	51.6	1.00	"	50.0		103	90-110			
Bromochloromethane	49.8	5.00	"	50.0		99.5	83-120			
Bromodichloromethane	54.6	2.00	"	50.0		109	82-117			
Bromoform	46.4	1.00	"	50.0		92.8	76-112			
Bromomethane	46.1	1.00	"	50.0		92.3	60-144			
n-Butylbenzene	52.1	1.00	"	50.0		104	81-118			
sec-Butylbenzene	50.9	1.00	"	50.0		102	84-113			
tert-Butylbenzene	51.9	1.00	"	50.0		104	87-112			
Carbon tetrachloride	48.4	1.00	"	50.0		96.7	68-118			
Chlorobenzene	54.1	1.00	"	50.0		108	87-113			
Chloroethane	46.4	1.00	"	50.0		92.8	48-147			
Chloroform	48.9	5.00	"	50.0		97.7	85-116			
Chloromethane	45.6	1.00	"	50.0		91.2	60-133			
Chlorodibromomethane	49.5	1.00	"	50.0		99.0	80-117			
2-Chlorotoluene	51.7	1.00	"	50.0		103	84-117			
4-Chlorotoluene	51.0	1.00	"	50.0		102	86-114			
1,2-Dibromo-3-chloropropane	51.3	1.00	"	50.0		103	62-126			
1,2-Dibromoethane (EDB)	55.9	1.00	"	50.0		112	84-119			
Dibromomethane	54.2	1.00	"	50.0		108	83-118			
1,2-Dichlorobenzene	54.6	1.00	"	50.0		109	90-110			
1,3-Dichlorobenzene	53.3	1.00	"	50.0		107	90-110			
1,4-Dichlorobenzene	52.0	1.00	"	50.0		104	87-110			
Dichlorodifluoromethane	43.1	1.00	"	50.0		86.2	60-115			
1,1-Dichloroethane	47.1	1.00	"	50.0		94.2	71-131			
1,2-Dichloroethane (EDC)	53.2	1.00	"	50.0		106	84-117			
1,1-Dichloroethene	43.6	1.00	"	50.0		87.1	69-129			
cis-1,2-Dichloroethene	49.3	1.00	"	50.0		98.7	81-124			
trans-1,2-Dichloroethene	46.7	1.00	"	50.0		93.4	66-140			
1,2-Dichloropropane	53.1	1.00	"	50.0		106	86-114			
1,3-Dichloropropane	54.7	1.00	"	50.0		109	83-122			
2,2-Dichloropropane	44.4	1.00	"	50.0		88.9	42-130			
1,1-Dichloropropene	49.0	1.00	"	50.0		98.0	75-117			
cis-1,3-Dichloropropene	53.2	1.00	"	50.0		106	72-125			
trans-1,3-Dichloropropene	49.9	1.00	"	50.0		99.8	73-120			
Ethylbenzene	52.4	1.00	"	50.0		105	58-146			
Hexachlorobutadiene	55.0	1.00	"	50.0		110	78-118			
Tert-amyl methyl ether	48.3	1.00	"	49.6		97.4	72-128			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2112717 - EPA 5030 Water MS

LCS (2112717-BS1)

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	47.8	10.0	ug/l	50.1	95.4	74-131			
Tert-butyl alcohol	258	20.0	"	250	103	66-115			
Isopropylbenzene	51.0	1.00	"	50.0	102	77-115			
Di-isopropyl ether	48.0	5.00	"	49.9	96.2	77-119			
p-Isopropyltoluene	52.8	1.00	"	50.0	106	84-110			
Methylene Chloride	51.4	5.00	"	50.0	103	36-156			
Methyl tert-butyl ether	47.7	5.00	"	50.1	95.3	71-130			
n-Propylbenzene	50.0	1.00	"	50.0	100	82-117			
Styrene	53.4	1.00	"	50.0	107	82-123			
1,1,2,2-Tetrachloroethane	55.2	1.00	"	50.0	110	66-126			
1,1,1,2-Tetrachloroethane	55.4	1.00	"	50.0	111	86-116			
Tetrachloroethene	49.8	1.00	"	50.0	99.6	74-121			
Toluene	49.8	1.00	"	50.0	99.5	51-138			
1,2,3-Trichlorobenzene	55.1	1.00	"	50.0	110	81-122			
1,2,4-Trichlorobenzene	48.4	1.00	"	50.0	96.8	87-115			
1,1,2-Trichloroethane	57.1	1.00	"	50.0	114	77-129			
1,1,1-Trichloroethane	46.6	1.00	"	50.0	93.2	75-120			
Trichloroethene	50.1	1.00	"	50.0	100	88-114			
Trichlorofluoromethane	48.0	1.00	"	50.0	95.9	65-129			
1,2,3-Trichloropropane	54.4	1.00	"	50.0	109	72-128			
1,3,5-Trimethylbenzene	49.2	1.00	"	50.0	98.5	86-110			
1,2,4-Trimethylbenzene	51.2	1.00	"	50.0	102	85-117			
Vinyl chloride	47.9	1.00	"	50.0	95.8	65-133			
m,p-Xylene	102	2.00	"	100	102	57-144			
o-Xylene	51.3	1.00	"	50.0	103	53-146			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.2</i>	<i>104</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>	<i>102</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.2</i>		<i>"</i>	<i>13.3</i>	<i>91.3</i>	<i>50.1-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS Dup (2112717-BSD1)

Prepared & Analyzed: 11/27/12

Benzene	48.4	1.00	ug/l	50.0		96.9	51-132	2.08	17	
Bromobenzene	50.0	1.00	"	50.0		100	90-110	3.09	10	
Bromochloromethane	48.7	5.00	"	50.0		97.3	83-120	2.19	19	
Bromodichloromethane	49.4	2.00	"	50.0		98.9	82-117	9.81	15	
Bromoform	44.8	1.00	"	50.0		89.5	76-112	3.58	12	
Bromomethane	47.0	1.00	"	50.0		94.0	60-144	1.83	24	
n-Butylbenzene	51.4	1.00	"	50.0		103	81-118	1.35	10	
sec-Butylbenzene	49.8	1.00	"	50.0		99.7	84-113	2.12	10	
tert-Butylbenzene	50.2	1.00	"	50.0		100	87-112	3.39	10	
Carbon tetrachloride	45.2	1.00	"	50.0		90.3	68-118	6.84	13	
Chlorobenzene	50.6	1.00	"	50.0		101	87-113	6.82	13	
Chloroethane	47.0	1.00	"	50.0		93.9	48-147	1.16	24	
Chloroform	48.0	5.00	"	50.0		96.0	85-116	1.75	19	
Chloromethane	46.6	1.00	"	50.0		93.2	60-133	2.13	23	
Chlorodibromomethane	45.6	1.00	"	50.0		91.1	80-117	8.27	12	
2-Chlorotoluene	49.6	1.00	"	50.0		99.2	84-117	4.03	10	
4-Chlorotoluene	48.9	1.00	"	50.0		97.7	86-114	4.31	10	
1,2-Dibromo-3-chloropropane	51.0	1.00	"	50.0		102	62-126	0.626	10	
1,2-Dibromoethane (EDB)	52.5	1.00	"	50.0		105	84-119	6.16	12	
Dibromomethane	51.9	1.00	"	50.0		104	83-118	4.28	14	
1,2-Dichlorobenzene	53.7	1.00	"	50.0		107	90-110	1.57	10	
1,3-Dichlorobenzene	51.4	1.00	"	50.0		103	90-110	3.59	10	
1,4-Dichlorobenzene	50.8	1.00	"	50.0		102	87-110	2.47	10	
Dichlorodifluoromethane	42.7	1.00	"	50.0		85.5	60-115	0.885	21	
1,1-Dichloroethane	46.5	1.00	"	50.0		93.1	71-131	1.17	20	
1,2-Dichloroethane (EDC)	51.9	1.00	"	50.0		104	84-117	2.57	12	
1,1-Dichloroethene	44.5	1.00	"	50.0		89.1	69-129	2.20	22	
cis-1,2-Dichloroethene	48.6	1.00	"	50.0		97.2	81-124	1.53	20	
trans-1,2-Dichloroethene	46.5	1.00	"	50.0		92.9	66-140	0.494	22	
1,2-Dichloropropane	49.6	1.00	"	50.0		99.3	86-114	6.72	14	
1,3-Dichloropropane	52.3	1.00	"	50.0		105	83-122	4.58	12	
2,2-Dichloropropane	43.6	1.00	"	50.0		87.3	42-130	1.86	19	
1,1-Dichloropropene	46.6	1.00	"	50.0		93.3	75-117	4.95	14	
cis-1,3-Dichloropropene	50.4	1.00	"	50.0		101	72-125	5.41	21	
trans-1,3-Dichloropropene	46.8	1.00	"	50.0		93.5	73-120	6.48	16	
Ethylbenzene	48.9	1.00	"	50.0		97.8	58-146	6.89	16	
Hexachlorobutadiene	54.6	1.00	"	50.0		109	78-118	0.620	10	
Tert-amyl methyl ether	46.7	1.00	"	49.6		94.2	72-128	3.39	18	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS Dup (2112717-BSD1)

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	47.2	10.0	ug/l	50.1	94.2	74-131	1.33	20	
Tert-butyl alcohol	256	20.0	"	250	102	66-115	0.647	19	
Isopropylbenzene	48.0	1.00	"	50.0	96.1	77-115	6.06	14	
Di-isopropyl ether	47.4	5.00	"	49.9	94.9	77-119	1.38	20	
p-Isopropyltoluene	51.5	1.00	"	50.0	103	84-110	2.61	11	
Methylene Chloride	51.5	5.00	"	50.0	103	36-156	0.214	32	
Methyl tert-butyl ether	48.6	5.00	"	50.1	97.0	71-130	1.79	22	
n-Propylbenzene	48.3	1.00	"	50.0	96.6	82-117	3.52	10	
Styrene	50.1	1.00	"	50.0	100	82-123	6.22	14	
1,1,2,2-Tetrachloroethane	53.7	1.00	"	50.0	107	66-126	2.88	10	
1,1,1,2-Tetrachloroethane	51.1	1.00	"	50.0	102	86-116	8.18	14	
Tetrachloroethane	47.0	1.00	"	50.0	93.9	74-121	5.91	14	
Toluene	46.4	1.00	"	50.0	92.8	51-138	6.97	17	
1,2,3-Trichlorobenzene	57.2	1.00	"	50.0	114	81-122	3.65	10	
1,2,4-Trichlorobenzene	48.4	1.00	"	50.0	96.8	87-115	0.0413	10	
1,1,2-Trichloroethane	53.5	1.00	"	50.0	107	77-129	6.47	17	
1,1,1-Trichloroethane	45.7	1.00	"	50.0	91.4	75-120	1.97	16	
Trichloroethene	48.2	1.00	"	50.0	96.3	88-114	3.95	14	
Trichlorofluoromethane	47.7	1.00	"	50.0	95.5	65-129	0.460	22	
1,2,3-Trichloropropane	52.4	1.00	"	50.0	105	72-128	3.73	10	
1,3,5-Trimethylbenzene	47.5	1.00	"	50.0	94.9	86-110	3.66	10	
1,2,4-Trimethylbenzene	49.5	1.00	"	50.0	99.0	85-117	3.42	10	
Vinyl chloride	49.4	1.00	"	50.0	98.9	65-133	3.14	21	
m,p-Xylene	95.3	2.00	"	100	95.3	57-144	6.71	16	
o-Xylene	48.9	1.00	"	50.0	97.9	53-146	4.79	15	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2	105	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3	100	51-150			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3	91.5	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2112717 - EPA 5030 Water MS

Matrix Spike (2112717-MS1)	Source: R211149-02			Prepared & Analyzed: 11/27/12						
Benzene	50.4	1.00	ug/l	50.0	ND	101	34-141			
Bromobenzene	45.8	1.00	"	50.0	ND	91.7	66-131			
Bromochloromethane	50.1	5.00	"	50.0	ND	100	74-125			
Bromodichloromethane	49.3	2.00	"	50.0	ND	98.6	64-131			
Bromoform	40.3	1.00	"	50.0	ND	80.5	63-122			
Bromomethane	48.7	1.00	"	50.0	ND	97.3	46-155			
n-Butylbenzene	48.3	1.00	"	50.0	ND	96.6	47-142			
sec-Butylbenzene	47.4	1.00	"	50.0	ND	94.8	52-135			
tert-Butylbenzene	47.6	1.00	"	50.0	ND	95.2	53-137			
Carbon tetrachloride	53.5	1.00	"	50.0	ND	107	62-121			
Chlorobenzene	49.3	1.00	"	50.0	ND	98.6	64-131			
Chloroethane	51.2	1.00	"	50.0	ND	102	60-130			
Chloroform	49.1	5.00	"	50.0	ND	98.1	70-130			
Chloromethane	50.4	1.00	"	50.0	ND	101	62-130			
Chlorodibromomethane	42.5	1.00	"	50.0	ND	85.0	60-134			
2-Chlorotoluene	46.9	1.00	"	50.0	ND	93.8	58-138			
4-Chlorotoluene	46.5	1.00	"	50.0	ND	93.1	62-131			
1,2-Dibromo-3-chloropropane	49.7	1.00	"	50.0	ND	99.4	63-125			
1,2-Dibromoethane (EDB)	50.0	1.00	"	50.0	ND	100	66-131			
Dibromomethane	50.7	1.00	"	50.0	ND	101	70-127			
1,2-Dichlorobenzene	48.6	1.00	"	50.0	ND	97.2	62-134			
1,3-Dichlorobenzene	47.6	1.00	"	50.0	ND	95.3	60-133			
1,4-Dichlorobenzene	46.7	1.00	"	50.0	ND	93.5	63-127			
Dichlorodifluoromethane	51.3	1.00	"	50.0	ND	103	24-136			
1,1-Dichloroethane	49.2	1.00	"	50.0	ND	98.4	73-124			
1,2-Dichloroethane (EDC)	51.1	1.00	"	50.0	ND	102	75-122			
1,1-Dichloroethene	52.1	1.00	"	50.0	ND	104	70-123			
cis-1,2-Dichloroethene	49.4	1.00	"	50.0	ND	98.7	72-129			
trans-1,2-Dichloroethene	50.8	1.00	"	50.0	ND	102	76-126			
1,2-Dichloropropane	49.3	1.00	"	50.0	ND	98.6	68-129			
1,3-Dichloropropane	49.5	1.00	"	50.0	ND	99.0	69-130			
2,2-Dichloropropane	52.4	1.00	"	50.0	ND	105	37-126			
1,1-Dichloropropene	54.1	1.00	"	50.0	ND	108	61-125			
cis-1,3-Dichloropropene	50.1	1.00	"	50.0	ND	100	59-127			
trans-1,3-Dichloropropene	45.6	1.00	"	50.0	ND	91.3	59-126			
Ethylbenzene	49.7	1.00	"	50.0	ND	99.4	29-160			
Hexachlorobutadiene	46.7	1.00	"	50.0	ND	93.4	41-141			
Tert-amyl methyl ether	46.5	1.00	"	49.6	ND	93.8	61-132			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2112717 - EPA 5030 Water MS

Matrix Spike (2112717-MS1)

Source: R211149-02

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	47.2	10.0	ug/l	50.1	ND	94.2	65-130			
Tert-butyl alcohol	259	20.0	"	250	ND	104	60-130			
Isopropylbenzene	48.7	1.00	"	50.0	ND	97.5	44-143			
Di-isopropyl ether	48.4	5.00	"	49.9	ND	96.9	73-128			
p-Isopropyltoluene	48.0	1.00	"	50.0	ND	96.0	47-137			
Methylene Chloride	49.1	5.00	"	50.0	ND	98.2	42-129			
Methyl tert-butyl ether	48.5	5.00	"	50.1	ND	96.8	70-124			
n-Propylbenzene	47.4	1.00	"	50.0	ND	94.9	61-129			
Styrene	46.4	1.00	"	50.0	ND	92.7	36-146			
1,1,2,2-Tetrachloroethane	50.7	1.00	"	50.0	ND	101	71-140			
1,1,1,2-Tetrachloroethane	48.0	1.00	"	50.0	ND	96.0	59-137			
Tetrachloroethane	51.7	1.00	"	50.0	ND	103	49-137			
Toluene	48.7	1.00	"	50.0	ND	97.4	27-151			
1,2,3-Trichlorobenzene	59.4	1.00	"	50.0	ND	119	61-137			
1,2,4-Trichlorobenzene	53.1	1.00	"	50.0	ND	106	55-141			
1,1,2-Trichloroethane	50.1	1.00	"	50.0	ND	100	67-134			
1,1,1-Trichloroethane	51.7	1.00	"	50.0	ND	103	66-128			
Trichloroethene	50.8	1.00	"	50.0	ND	102	65-119			
Trichlorofluoromethane	57.3	1.00	"	50.0	ND	115	65-121			
1,2,3-Trichloropropane	48.0	1.00	"	50.0	ND	95.9	69-125			
1,3,5-Trimethylbenzene	47.5	1.00	"	50.0	ND	95.1	50-138			
1,2,4-Trimethylbenzene	46.8	1.00	"	50.0	ND	93.7	54-137			
Vinyl chloride	56.0	1.00	"	50.0	ND	112	71-124			
m,p-Xylene	96.9	2.00	"	100	ND	96.9	20-166			
o-Xylene	46.7	1.00	"	50.0	ND	93.4	33-159			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.7</i>		<i>"</i>	<i>13.2</i>		<i>111</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.6</i>	<i>50.1-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2112717 - EPA 5030 Water MS

Matrix Spike Dup (2112717-MSD1)	Source: R211149-02			Prepared & Analyzed: 11/27/12						
Benzene	49.3	1.00	ug/l	50.0	ND	98.6	34-141	2.19	32	
Bromobenzene	46.4	1.00	"	50.0	ND	92.9	66-131	1.30	30	
Bromochloromethane	47.1	5.00	"	50.0	ND	94.3	74-125	6.09	30	
Bromodichloromethane	48.3	2.00	"	50.0	ND	96.5	64-131	2.15	30	
Bromoform	40.0	1.00	"	50.0	ND	79.9	63-122	0.748	27	
Bromomethane	45.6	1.00	"	50.0	ND	91.3	46-155	6.45	95	
n-Butylbenzene	48.1	1.00	"	50.0	ND	96.2	47-142	0.353	33	
sec-Butylbenzene	46.8	1.00	"	50.0	ND	93.7	52-135	1.19	33	
tert-Butylbenzene	47.1	1.00	"	50.0	ND	94.3	53-137	0.971	38	
Carbon tetrachloride	50.5	1.00	"	50.0	ND	101	62-121	5.78	21	
Chlorobenzene	48.6	1.00	"	50.0	ND	97.3	64-131	1.37	30	
Chloroethane	47.2	1.00	"	50.0	ND	94.4	60-130	8.17	29	
Chloroform	46.6	5.00	"	50.0	ND	93.1	70-130	5.23	32	
Chloromethane	46.6	1.00	"	50.0	ND	93.2	62-130	7.76	24	
Chlorodibromomethane	42.4	1.00	"	50.0	ND	84.7	60-134	0.353	30	
2-Chlorotoluene	46.5	1.00	"	50.0	ND	93.1	58-138	0.771	34	
4-Chlorotoluene	46.7	1.00	"	50.0	ND	93.3	62-131	0.279	29	
1,2-Dibromo-3-chloropropane	47.6	1.00	"	50.0	ND	95.2	63-125	4.34	34	
1,2-Dibromoethane (EDB)	50.9	1.00	"	50.0	ND	102	66-131	1.82	31	
Dibromomethane	50.1	1.00	"	50.0	ND	100	70-127	1.05	28	
1,2-Dichlorobenzene	48.6	1.00	"	50.0	ND	97.2	62-134	0.00	29	
1,3-Dichlorobenzene	47.7	1.00	"	50.0	ND	95.4	60-133	0.189	30	
1,4-Dichlorobenzene	46.2	1.00	"	50.0	ND	92.4	63-127	1.12	31	
Dichlorodifluoromethane	45.7	1.00	"	50.0	ND	91.4	24-136	11.5	31	
1,1-Dichloroethane	46.7	1.00	"	50.0	ND	93.3	73-124	5.30	33	
1,2-Dichloroethane (EDC)	50.7	1.00	"	50.0	ND	101	75-122	0.707	19	
1,1-Dichloroethene	47.7	1.00	"	50.0	ND	95.5	70-123	8.70	32	
cis-1,2-Dichloroethene	47.7	1.00	"	50.0	ND	95.3	72-129	3.48	31	
trans-1,2-Dichloroethene	47.4	1.00	"	50.0	ND	94.9	76-126	6.76	31	
1,2-Dichloropropane	48.8	1.00	"	50.0	ND	97.5	68-129	1.16	29	
1,3-Dichloropropane	49.9	1.00	"	50.0	ND	99.8	69-130	0.825	31	
2,2-Dichloropropane	47.6	1.00	"	50.0	ND	95.2	37-126	9.63	33	
1,1-Dichloropropene	51.2	1.00	"	50.0	ND	102	61-125	5.57	28	
cis-1,3-Dichloropropene	48.9	1.00	"	50.0	ND	97.8	59-127	2.39	28	
trans-1,3-Dichloropropene	44.8	1.00	"	50.0	ND	89.6	59-126	1.88	28	
Ethylbenzene	48.8	1.00	"	50.0	ND	97.6	29-160	1.83	50	
Hexachlorobutadiene	49.8	1.00	"	50.0	ND	99.7	41-141	6.53	35	
Tert-amyl methyl ether	44.7	1.00	"	49.6	ND	90.2	61-132	3.94	34	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2112717 - EPA 5030 Water MS

Matrix Spike Dup (2112717-MSD1)

Source: R211149-02

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	45.4	10.0	ug/l	50.1	ND	90.7	65-130	3.74	38	
Tert-butyl alcohol	245	20.0	"	250	ND	98.0	60-130	5.64	31	
Isopropylbenzene	47.5	1.00	"	50.0	ND	95.0	44-143	2.58	35	
Di-isopropyl ether	45.8	5.00	"	49.9	ND	91.7	73-128	5.52	25	
p-Isopropyltoluene	48.0	1.00	"	50.0	ND	96.1	47-137	0.104	38	
Methylene Chloride	45.8	5.00	"	50.0	ND	91.5	42-129	7.02	31	
Methyl tert-butyl ether	46.2	5.00	"	50.1	ND	92.3	70-124	4.81	35	
n-Propylbenzene	46.4	1.00	"	50.0	ND	92.7	61-129	2.32	35	
Styrene	46.6	1.00	"	50.0	ND	93.2	36-146	0.538	33	
1,1,2,2-Tetrachloroethane	50.8	1.00	"	50.0	ND	102	71-140	0.256	32	
1,1,1,2-Tetrachloroethane	47.9	1.00	"	50.0	ND	95.8	59-137	0.250	32	
Tetrachloroethane	49.6	1.00	"	50.0	ND	99.3	49-137	4.07	32	
Toluene	47.6	1.00	"	50.0	ND	95.1	27-151	2.35	25	
1,2,3-Trichlorobenzene	61.8	1.00	"	50.0	ND	124	61-137	3.89	27	
1,2,4-Trichlorobenzene	53.7	1.00	"	50.0	ND	107	55-141	1.05	28	
1,1,2-Trichloroethane	49.3	1.00	"	50.0	ND	98.7	67-134	1.45	29	
1,1,1-Trichloroethane	48.7	1.00	"	50.0	ND	97.5	66-128	5.91	31	
Trichloroethene	49.2	1.00	"	50.0	ND	98.4	65-119	3.20	30	
Trichlorofluoromethane	50.9	1.00	"	50.0	ND	102	65-121	11.8	30	
1,2,3-Trichloropropane	49.9	1.00	"	50.0	ND	99.9	69-125	4.04	33	
1,3,5-Trimethylbenzene	46.7	1.00	"	50.0	ND	93.3	50-138	1.87	34	
1,2,4-Trimethylbenzene	46.4	1.00	"	50.0	ND	92.8	54-137	0.901	34	
Vinyl chloride	51.3	1.00	"	50.0	ND	103	71-124	8.87	26	
m,p-Xylene	94.4	2.00	"	100	ND	94.4	20-166	2.55	36	
o-Xylene	46.3	1.00	"	50.0	ND	92.6	33-159	0.774	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.5</i>		<i>"</i>	<i>13.2</i>		<i>102</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.7</i>	<i>50.1-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112718 - EPA 3510B

Blank (2112718-BLK1)

Prepared: 11/27/12 Analyzed: 11/28/12

Acenaphthene	ND	10.0	ug/l
Acenaphthylene	ND	10.0	"
Anthracene	ND	10.0	"
Bis(2-ethylhexyl)adipate	ND	20.0	"
Benzo (a) anthracene	ND	10.0	"
Benzo (b) fluoranthene	ND	10.0	"
Benzo (k) fluoranthene	ND	10.0	"
Benzo (g,h,i) perylene	ND	10.0	"
Benzo (a) pyrene	ND	10.0	"
Benzyl alcohol	ND	20.0	"
Benzoic acid	ND	30.0	"
Pyridine	ND	20.0	"
Bis(2-chloroethoxy)methane	ND	10.0	"
N-Nitrosodimethylamine	ND	20.0	"
Bis(2-chloroethyl)ether	ND	10.0	"
Bis(2-chloroisopropyl)ether	ND	10.0	"
Bis(2-ethylhexyl)phthalate	ND	10.0	"
4-Bromophenyl phenyl ether	ND	10.0	"
Butyl benzyl phthalate	ND	10.0	"
4-Chloroaniline	ND	20.0	"
4-Chloro-3-methylphenol	ND	20.0	"
2-Chloronaphthalene	ND	10.0	"
2-Chlorophenol	ND	10.0	"
4-Chlorophenyl phenyl ether	ND	10.0	"
Chrysene	ND	10.0	"
Dibenz (a,h) anthracene	ND	10.0	"
Dibenzofuran	ND	10.0	"
Di-n-butyl phthalate	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
2,4-Dichlorophenol	ND	10.0	"
Diethyl phthalate	ND	10.0	"
2,4-Dimethylphenol	ND	10.0	"
Carbazole	ND	20.0	"
Dimethyl phthalate	ND	10.0	"
4,6-Dinitro-2-methylphenol	ND	30.0	"
2,4-Dinitrophenol	ND	30.0	"

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Project: 1770 13th St
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Project Manager: Craig Lugowski

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Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112718 - EPA 3510B

Blank (2112718-BLK1)

Prepared: 11/27/12 Analyzed: 11/28/12

Azobenzene	ND	20.0	ug/l							
2,4-Dinitrotoluene	ND	10.0	"							
2,6-Dinitrotoluene	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
2,3,5,6-Tetrachlorophenol	ND	20.0	"							
2-Methylphenol	ND	10.0	"							
4-Methylphenol	ND	10.0	"							
Naphthalene	ND	10.0	"							
1,2-Dinitrobenzene	ND	20.0	"							
2-Nitroaniline	ND	30.0	"							
1,3-Dinitrobenzene	ND	20.0	"							
3-Nitroaniline	ND	30.0	"							
1,4-Dinitrobenzene	ND	20.0	"							
4-Nitroaniline	ND	30.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	30.0	"							
1-Methylnaphthalene	ND	20.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
2,3,4,6-Tetrachlorophenol	ND	20.0	"							
Pentachlorophenol	ND	30.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Aniline	ND	20.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							
Surrogate: 2-Fluorophenol	43.2		"	100		43.2	10-100			

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Project Manager: Craig Lugowski

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Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112718 - EPA 3510B

Blank (2112718-BLK1)

Prepared: 11/27/12 Analyzed: 11/28/12

Surrogate: Phenol-d6	31.7		ug/l	99.8		31.8	10-100			
Surrogate: Nitrobenzene-d5	68.8		"	100		68.8	30.7-131			
Surrogate: 2-Fluorobiphenyl	67.1		"	100		67.1	18.2-157			
Surrogate: 2,4,6-Tribromophenol	48.7		"	100		48.7	23.3-100			
Surrogate: Terphenyl-d14	68.0		"	98.6		69.0	18.7-150			

LCS (2112718-BS1)

Prepared: 11/27/12 Analyzed: 11/28/12

Acenaphthene	131	10.0	ug/l	200		65.4	49.9-101			
Acenaphthylene	72.3	10.0	"	100		72.3	59.5-100			
Anthracene	67.6	10.0	"	100		67.6	56-100			
Benzo (a) anthracene	59.6	10.0	"	100		59.6	17-139			
Benzo (b) fluoranthene	70.7	10.0	"	100		70.7	34.2-156			
Benzo (k) fluoranthene	72.0	10.0	"	100		72.0	10-212			
Benzo (g,h,i) perylene	53.8	10.0	"	100		53.8	20.9-168			
Benzo (a) pyrene	73.6	10.0	"	100		73.6	18.8-169			
4-Chloro-3-methylphenol	132	20.0	"	200		65.8	24.7-130			
2-Chlorophenol	132	10.0	"	200		65.8	47.4-106			
Chrysene	59.3	10.0	"	100		59.3	15.3-131			
Dibenz (a,h) anthracene	68.8	10.0	"	100		68.8	20-158			
1,4-Dichlorobenzene	66.2	10.0	"	100		66.2	41.4-110			
2,4-Dinitrotoluene	80.9	10.0	"	100		80.9	63.6-100			
Fluoranthene	71.2	10.0	"	100		71.2	61.1-100			
Fluorene	70.5	10.0	"	100		70.5	61.6-100			
Indeno (1,2,3-cd) pyrene	75.0	10.0	"	100		75.0	34.7-137			
Naphthalene	58.5	10.0	"	100		58.5	58.2-100			
4-Nitrophenol	52.9	30.0	"	200		26.5	10-100			
N-Nitrosodi-n-propylamine	73.3	10.0	"	99.6		73.6	10-169			
Pentachlorophenol	32.0	30.0	"	200		16.0	10-153			
Phenanthrene	71.5	10.0	"	100		71.5	58.7-100			
Phenol	61.3	10.0	"	200		30.7	10-122			
Pyrene	112	10.0	"	199		56.5	10-168			
1,2,4-Trichlorobenzene	69.2	10.0	"	99.2		69.7	43.5-111			
Surrogate: 2-Fluorophenol	50.8		"	100		50.8	10-100			
Surrogate: Phenol-d6	39.5		"	99.8		39.6	10-100			
Surrogate: Nitrobenzene-d5	71.2		"	100		71.2	30.7-131			
Surrogate: 2-Fluorobiphenyl	80.7		"	100		80.7	18.2-157			
Surrogate: 2,4,6-Tribromophenol	81.0		"	100		81.0	23.3-100			
Surrogate: Terphenyl-d14	68.9		"	98.6		69.9	18.7-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2112718 - EPA 3510B

LCS Dup (2112718-BSD1)

Prepared: 11/27/12 Analyzed: 11/28/12

Acenaphthene	127	10.0	ug/l	200	63.7	49.9-101	2.77	20	
Acenaphthylene	69.9	10.0	"	100	69.9	59.5-100	3.40	20	
Anthracene	70.3	10.0	"	100	70.3	56-100	3.86	20	
Benzo (a) anthracene	61.5	10.0	"	100	61.5	17-139	3.07	20	
Benzo (b) fluoranthene	80.0	10.0	"	100	80.0	34.2-156	12.3	20	
Benzo (k) fluoranthene	73.0	10.0	"	100	73.0	10-212	1.41	20	
Benzo (g,h,i) perylene	58.8	10.0	"	100	58.8	20.9-168	8.81	20	
Benzo (a) pyrene	74.9	10.0	"	100	74.9	18.8-169	1.81	20	
4-Chloro-3-methylphenol	170	20.0	"	200	85.1	24.7-130	25.5	20	
2-Chlorophenol	133	10.0	"	200	66.6	47.4-106	1.06	20	
Chrysene	63.2	10.0	"	100	63.2	15.3-131	6.47	20	
Dibenz (a,h) anthracene	72.5	10.0	"	100	72.5	20-158	5.24	20	
1,4-Dichlorobenzene	67.2	10.0	"	100	67.2	41.4-110	1.50	20	
2,4-Dinitrotoluene	79.3	10.0	"	100	79.3	63.6-100	2.02	20	
Fluoranthene	72.1	10.0	"	100	72.1	61.1-100	1.23	20	
Fluorene	68.8	10.0	"	100	68.8	61.6-100	2.44	20	
Indeno (1,2,3-cd) pyrene	73.9	10.0	"	100	73.9	34.7-137	1.45	20	
Naphthalene	77.4	10.0	"	100	77.4	58.2-100	27.8	20	
4-Nitrophenol	46.6	30.0	"	200	23.3	10-100	12.7	20	
N-Nitrosodi-n-propylamine	73.8	10.0	"	99.6	74.1	10-169	0.653	20	
Pentachlorophenol	27.2	30.0	"	200	13.6	10-153	15.9	20	
Phenanthrene	72.1	10.0	"	100	72.1	58.7-100	0.863	20	
Phenol	62.1	10.0	"	200	31.0	10-122	1.23	20	
Pyrene	119	10.0	"	199	59.7	10-168	5.42	20	
1,2,4-Trichlorobenzene	92.5	10.0	"	99.2	93.3	43.5-111	28.9	20	
Surrogate: 2-Fluorophenol	52.3		"	100	52.3	10-100			
Surrogate: Phenol-d6	33.4		"	99.8	33.5	10-100			
Surrogate: Nitrobenzene-d5	93.5		"	100	93.5	30.7-131			
Surrogate: 2-Fluorobiphenyl	75.2		"	100	75.2	18.2-157			
Surrogate: 2,4,6-Tribromophenol	73.5		"	100	73.5	23.3-100			
Surrogate: Terphenyl-d14	71.2		"	98.6	72.2	18.7-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 16:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2112718 - EPA 3510B

Matrix Spike (2112718-MS1)	Source: R211165-05			Prepared: 11/27/12		Analyzed: 11/28/12					
Acenaphthene	85.0	10.0	ug/l	200	19.5	32.7	37.6-100				QM-01
Acenaphthylene	155	10.0	"	100	144	10.6	33.1-108				QM-01
Anthracene	60.3	10.0	"	100	7.24	53.1	10.8-133				
Benzo (a) anthracene	74.2	10.0	"	100	1.72	72.4	21.3-102				
Benzo (b) fluoranthene	79.9	10.0	"	100	2.44	77.4	33.2-117				
Benzo (k) fluoranthene	75.2	10.0	"	100	2.00	73.2	10-161				
Benzo (g,h,i) perylene	60.9	10.0	"	100	ND	60.9	6.78-130				
Benzo (a) pyrene	75.5	10.0	"	100	1.10	74.4	22.9-123				
4-Chloro-3-methylphenol	ND	20.0	"	200	ND		10-132				
2-Chlorophenol	126	10.0	"	200	ND	62.9	53.8-82.4				
Chrysene	64.0	10.0	"	100	1.82	62.2	21.2-100				
Dibenz (a,h) anthracene	75.1	10.0	"	100	ND	75.1	13.1-122				
1,4-Dichlorobenzene	68.0	10.0	"	100	ND	68.0	24.4-100				
2,4-Dinitrotoluene	45.8	10.0	"	100	1.30	44.5	36.7-106				
Fluoranthene	55.2	10.0	"	100	2.74	52.4	10-164				
Fluorene	72.4	10.0	"	100	39.1	33.3	15-106				
Indeno (1,2,3-cd) pyrene	84.0	10.0	"	100	ND	84.0	18.5-113				
Naphthalene	3820	10.0	"	100	7210	NR	29.3-102				QM-4X
4-Nitrophenol	ND	30.0	"	200	6.32	NR	10-100				
N-Nitrosodi-n-propylamine	75.1	10.0	"	99.6	ND	75.4	36.3-104				
Pentachlorophenol	133	30.0	"	200	ND	66.6	10-101				
Phenanthrene	92.1	10.0	"	100	39.1	53.0	25.1-118				
Phenol	92.0	10.0	"	200	ND	46.0	10-100				
Pyrene	144	10.0	"	199	5.00	69.7	10-120				
1,2,4-Trichlorobenzene	94.3	10.0	"	99.2	ND	95.1	29.7-102				
Surrogate: 2-Fluorophenol	45.1		"	100		45.1	10-100				
Surrogate: Phenol-d6	36.5		"	99.8		36.6	10-100				
Surrogate: Nitrobenzene-d5	181		"	100		181	30.7-131				
Surrogate: 2-Fluorobiphenyl	43.1		"	100		43.1	18.2-157				
Surrogate: 2,4,6-Tribromophenol	88.9		"	100		88.9	23.3-100				
Surrogate: Terphenyl-d14	87.5		"	98.6		88.7	18.7-150				

Summit Scientific

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Reported:
12/11/12 16:41

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 04, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 11/28/12 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-NPWATER-112812	R211185-01	Water	11/28/12 13:45	11/28/12 17:40
COB-FILL3-112812	R211185-02	Soil	11/28/12 14:00	11/28/12 17:40
COB-FILL4-112812	R211185-03	Soil	11/28/12 14:05	11/28/12 17:40

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-NPWATER-112812
R211185-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	4000	100	ug/l	100	2112717	11/28/12	11/29/12	EPA 8260B	
Bromobenzene	ND	1.00	"	1	"	"	11/29/12	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	2.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	1.00	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	1.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	

Summit Scientific

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-NPWATER-112812
R211185-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,3-Dichloropropene	ND	1.00	ug/l	1	2112717	11/28/12	11/29/12	EPA 8260B
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"
Ethylbenzene	1390	100	"	100	"	"	11/29/12	"
Hexachlorobutadiene	ND	1.00	"	1	"	"	11/29/12	"
Tert-amyl methyl ether	ND	1.00	"	"	"	"	"	"
Tert-butyl alcohol	23.7	20.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	64.9	1.00	"	"	"	"	"	"
p-Isopropyltoluene	10.2	1.00	"	"	"	"	"	"
Methylene Chloride	ND	5.00	"	"	"	"	11/29/12	"
Methyl tert-butyl ether	ND	5.00	"	"	"	"	11/29/12	"
Naphthalene	15800	100	"	100	"	"	11/29/12	"
n-Propylbenzene	21.5	1.00	"	1	"	"	11/29/12	"
Styrene	ND	1.00	"	"	"	"	11/29/12	"
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	11/29/12	"
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"
Tetrachloroethene	ND	1.00	"	"	"	"	"	"
Toluene	4040	100	"	100	"	"	11/29/12	"
1,2,3-Trichlorobenzene	ND	1.00	"	1	"	"	11/29/12	"
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"
Trichloroethene	ND	1.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"
1,3,5-Trimethylbenzene	60.4	1.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	99.0	1.00	"	"	"	"	"	"
Vinyl chloride	ND	1.00	"	"	"	"	"	"
m,p-Xylene	1310	200	"	100	"	"	11/29/12	"
o-Xylene	610	100	"	"	"	"	"	"

Date Sampled: 11/28/12 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.4 %		49.7-150	"	"	11/29/12	"	
Surrogate: Toluene-d8		107 %		51-150	"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-NPWATER-112812
R211185-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene 110 % 50.1-150 2112717 11/28/12 11/29/12 EPA 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **11/28/12 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	40.2	10.0	ug/l	1	2112805	11/28/12	12/02/12	EPA 8270D	
Acenaphthylene	258	100	"	10	"	"	"	"	
Anthracene	ND	10.0	"	1	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Benzyl alcohol	ND	20.0	"	"	"	"	"	"	
Benzoic acid	334	300	"	10	"	"	"	"	
Pyridine	147	20.0	"	1	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	20.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	
4-Chloroaniline	ND	20.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	20.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	

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Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-NPWATER-112812
R211185-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Compound Name	Result	Concentration (ug/l)	Unit	Sample ID	Date 1	Date 2	Method
1,4-Dichlorobenzene	ND	10.0	ug/l	1	2112805	11/28/12	EPA 8270D
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"
Diethyl phthalate	79.3	10.0	"	"	"	"	"
2,4-Dimethylphenol	130	100	"	10	"	"	"
Carbazole	ND	20.0	"	1	"	"	"
Dimethyl phthalate	ND	10.0	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	30.0	"	"	"	"	"
2,4-Dinitrophenol	ND	30.0	"	"	"	"	"
Azobenzene	ND	20.0	"	"	"	"	"
2,4-Dinitrotoluene	41.2	10.0	"	"	"	"	"
2,6-Dinitrotoluene	ND	10.0	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"
Fluoranthene	ND	10.0	"	"	"	"	"
Fluorene	72.3	10.0	"	"	"	"	"
Hexachlorobenzene	ND	10.0	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"
Hexachloroethane	11.4	10.0	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"
Isophorone	49.5	10.0	"	"	"	"	"
2-Methylnaphthalene	109	10.0	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	20.0	"	"	"	"	"
2-Methylphenol	149	10.0	"	"	"	"	"
4-Methylphenol	229	100	"	10	"	"	"
Naphthalene	13300	10000	"	1000	"	"	"
1,2-Dinitrobenzene	ND	20.0	"	1	"	"	"
2-Nitroaniline	ND	30.0	"	"	"	"	"
1,3-Dinitrobenzene	ND	20.0	"	"	"	"	"
3-Nitroaniline	ND	30.0	"	"	"	"	"
1,4-Dinitrobenzene	ND	20.0	"	"	"	"	"
4-Nitroaniline	ND	30.0	"	"	"	"	"
Nitrobenzene	ND	10.0	"	"	"	"	"
2-Nitrophenol	ND	10.0	"	"	"	"	"
4-Nitrophenol	ND	30.0	"	"	"	"	"
1-Methylnaphthalene	ND	20.0	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	20.0	"	"	"	"	"

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USA Environmental CP
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 Golden CO, 80401

Project: 1770 13th St
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 Project Manager: Craig Lugowski

Reported:
 12/04/12 09:18

COB-NPWATER-112812
R211185-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Pentachlorophenol	ND	30.0	ug/l	1	2112805	11/28/12	12/02/12	EPA 8270D
Phenanthrene	ND	10.0	"	"	"	"	"	"
Phenol	205	100	"	10	"	"	"	"
Aniline	26.4	20.0	"	1	"	"	"	"
Pyrene	ND	10.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"

Date Sampled: **11/28/12 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		70.8 %	10-100		"	"	"	"	
Surrogate: Phenol-d6		52.7 %	10-100		"	"	"	"	
Surrogate: Nitrobenzene-d5		115 %	30.7-131		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77.4 %	18.2-157		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		119 %	23.3-100		"	"	"	"	S-06
Surrogate: Terphenyl-d14		202 %	18.7-150		"	"	"	"	S-06

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-FILL3-112812
R211185-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 14:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	5.00	ug/kg	1	2112716	11/28/12	11/29/12	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

COB-FILL3-112812
R211185-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/28/12	11/29/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	ND	5.00	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	ND	5.00	"	"	"	"	"	"
p-Isopropyltoluene	ND	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
Naphthalene	ND	10.0	"	"	"	"	"	"
n-Propylbenzene	ND	5.00	"	"	"	"	"	"
Styrene	ND	10.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	ND	10.0	"	"	"	"	"	"
o-Xylene	ND	5.00	"	"	"	"	"	"

Date Sampled: 11/28/12 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		121 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	30-150		"	"	"	"	

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R211185-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene 96.1 % 30-150 2112716 11/28/12 11/29/12 EPA 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/28/12 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	120	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D	
Acenaphthylene	1400	330	"	"	"	"	"	"	
Anthracene	400	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	330	"	"	"	"	"	"	
Benzo (a) anthracene	4500	3300	"	10	"	"	"	"	
Benzo (b) fluoranthene	6100	3300	"	"	"	"	"	"	
Benzo (k) fluoranthene	7000	3300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	2700	3300	"	"	"	"	"	"	
Benzo (a) pyrene	3700	3300	"	"	"	"	"	"	
Benzyl alcohol	ND	330	"	1	"	"	"	"	
Pyridine	ND	330	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	40	330	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	31	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	330	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	330	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	5900	3300	"	10	"	"	"	"	
Dibenz (a,h) anthracene	1500	330	"	1	"	"	"	"	
Dibenzofuran	64	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	330	"	"	"	"	"	"	

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COB-FILL3-112812
R211185-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Diethyl phthalate	ND	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D
2,4-Dimethylphenol	ND	330	"	"	"	"	"	"
Carbazole	16	330	"	"	"	"	"	"
Dimethyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	330	"	"	"	"	"	"
2,4-Dinitrophenol	ND	330	"	"	"	"	"	"
Azobenzene	ND	330	"	"	"	"	"	"
2,4-Dinitrotoluene	54	330	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	330	"	"	"	"	"	"
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"
Fluoranthene	1800	330	"	"	"	"	"	"
Fluorene	440	330	"	"	"	"	"	"
Hexachlorobenzene	ND	330	"	"	"	"	"	"
Hexachlorobutadiene	ND	330	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"
Hexachloroethane	1000	330	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	4900	3300	"	10	"	"	"	"
Isophorone	19	330	"	1	"	"	"	"
2-Methylnaphthalene-d10	ND	330	"	"	"	"	"	"
1-Methylnaphthalene	ND	330	"	"	"	"	"	"
2-Methylphenol	71	330	"	"	"	"	"	"
4-Methylphenol	ND	330	"	"	"	"	"	"
Naphthalene	ND	330	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	330	"	"	"	"	"	"
2-Nitroaniline	98	330	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	330	"	"	"	"	"	"
3-Nitroaniline	ND	330	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	330	"	"	"	"	"	"
4-Nitroaniline	ND	330	"	"	"	"	"	"
Nitrobenzene	140	330	"	"	"	"	"	"
2-Nitrophenol	ND	330	"	"	"	"	"	"
4-Nitrophenol	ND	330	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	330	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	330	"	"	"	"	"	"
Pentachlorophenol	ND	330	"	"	"	"	"	"
Phenanthrene	2200	330	"	"	"	"	"	"

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R211185-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Phenol	ND	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D
Aniline	ND	330	"	"	"	"	"	"
Pyrene	7600	3300	"	10	"	"	"	"
1,2,4-Trichlorobenzene	ND	330	"	1	"	"	"	"
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"

Date Sampled: 11/28/12 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		72.5 %	30-150		"	"	"	"	
Surrogate: Phenol-d6		76.9 %	30-150		"	"	"	"	
Surrogate: Nitrobenzene-d5		72.6 %	30-150		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.0 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		93.7 %	30-150		"	"	"	"	
Surrogate: Terphenyl-d14		84.8 %	30-150		"	"	"	"	

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12/04/12 09:18

COB-FILL4-112812
R211185-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	5.00	ug/kg	1	2112716	11/28/12	11/29/12	EPA 8260B	
Bromobenzene	ND	5.00	"	"	"	"	"	"	
Bromochloromethane	ND	5.00	"	"	"	"	"	"	
Bromodichloromethane	ND	5.00	"	"	"	"	"	"	
Bromoform	ND	5.00	"	"	"	"	"	"	
Bromomethane	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.00	"	"	"	"	"	"	
Chlorobenzene	ND	5.00	"	"	"	"	"	"	
Chloroethane	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	5.00	"	"	"	"	"	"	
Chloromethane	ND	15.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	10.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.00	"	"	"	"	"	"	
Dibromomethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.00	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.00	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	

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R211185-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	5.00	ug/kg	1	2112716	11/28/12	11/29/12	EPA 8260B
1,2-Dichloropropane	ND	5.00	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.00	"	"	"	"	"	"
2,2-Dichloropropane	ND	10.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.00	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.00	"	"	"	"	"	"
Ethylbenzene	ND	5.00	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"
Isopropylbenzene	ND	5.00	"	"	"	"	"	"
p-Isopropyltoluene	ND	10.0	"	"	"	"	"	"
Methylene Chloride	ND	15.0	"	"	"	"	"	"
Naphthalene	ND	10.0	"	"	"	"	"	"
n-Propylbenzene	ND	5.00	"	"	"	"	"	"
Styrene	ND	10.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.00	"	"	"	"	"	"
Tetrachloroethene	ND	5.00	"	"	"	"	"	"
Toluene	ND	5.00	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.00	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.00	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.00	"	"	"	"	"	"
Trichloroethene	ND	5.00	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.00	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.00	"	"	"	"	"	"
Vinyl chloride	ND	5.00	"	"	"	"	"	"
m,p-Xylene	ND	10.0	"	"	"	"	"	"
o-Xylene	ND	5.00	"	"	"	"	"	"

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	30-150		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Surrogate: 4-Bromofluorobenzene 95.5 % 30-150 2112716 11/28/12 11/29/12 EPA 8260B

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/28/12 14:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	210	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D	
Acenaphthylene	2100	330	"	"	"	"	"	"	
Anthracene	930	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	330	"	"	"	"	"	"	
Benzo (a) anthracene	15000	3300	"	10	"	"	"	"	
Benzo (b) fluoranthene	17000	3300	"	"	"	"	"	"	
Benzo (k) fluoranthene	19000	3300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	4600	3300	"	"	"	"	"	"	
Benzo (a) pyrene	12000	3300	"	"	"	"	"	"	
Benzyl alcohol	ND	330	"	1	"	"	"	"	
Pyridine	320	330	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	69	330	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	33	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	46	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	330	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	330	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	16000	3300	"	10	"	"	"	"	
Dibenz (a,h) anthracene	5300	3300	"	"	"	"	"	"	
Dibenzofuran	130	330	"	1	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	330	"	"	"	"	"	"	

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R211185-03 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Compound	Result	Limit	Unit	1	2112903	11/29/12	11/29/12	EPA 8270D
Diethyl phthalate	ND	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D
2,4-Dimethylphenol	19	330	"	"	"	"	"	"
Carbazole	83	330	"	"	"	"	"	"
Dimethyl phthalate	ND	330	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	280	330	"	"	"	"	"	"
2,4-Dinitrophenol	ND	330	"	"	"	"	"	"
Azobenzene	89	330	"	"	"	"	"	"
2,4-Dinitrotoluene	57	330	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	330	"	"	"	"	"	"
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"
Fluoranthene	16000	3300	"	10	"	"	"	"
Fluorene	450	330	"	1	"	"	"	"
Hexachlorobenzene	ND	330	"	"	"	"	"	"
Hexachlorobutadiene	ND	330	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"
Hexachloroethane	1200	330	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	8200	3300	"	10	"	"	"	"
Isophorone	21	330	"	1	"	"	"	"
2-Methylnaphthalene-d10	ND	330	"	"	"	"	"	"
1-Methylnaphthalene	ND	330	"	"	"	"	"	"
2-Methylphenol	150	330	"	"	"	"	"	"
4-Methylphenol	13	330	"	"	"	"	"	"
Naphthalene	350	330	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	330	"	"	"	"	"	"
2-Nitroaniline	150	330	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	330	"	"	"	"	"	"
3-Nitroaniline	ND	330	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	330	"	"	"	"	"	"
4-Nitroaniline	ND	330	"	"	"	"	"	"
Nitrobenzene	ND	330	"	"	"	"	"	"
2-Nitrophenol	ND	330	"	"	"	"	"	"
4-Nitrophenol	93	330	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	330	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"
2,3,5,6-Tetrachlorophenol	ND	330	"	"	"	"	"	"
Pentachlorophenol	140	330	"	"	"	"	"	"
Phenanthrene	6900	330	"	"	"	"	"	"
Phenol	ND	330	"	"	"	"	"	"

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/04/12 09:18

COB-FILL4-112812
R211185-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Aniline	ND	330	ug/kg	1	2112903	11/29/12	11/29/12	EPA 8270D
Pyrene	35000	33000	"	100	"	"	"	"
1,2,4-Trichlorobenzene	ND	330	"	1	"	"	"	"
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"

Date Sampled: **11/28/12 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		77.8 %	30-150		"	"	"	"	
Surrogate: Phenol-d6		82.7 %	30-150		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.8 %	30-150		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.9 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		108 %	30-150		"	"	"	"	
Surrogate: Terphenyl-d14		125 %	30-150		"	"	"	"	S-08

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2112716 - EPA 5030 Soil MS

Blank (2112716-BLK1)

Prepared & Analyzed: 11/27/12

Benzene	ND	5.00	ug/kg
Bromobenzene	ND	5.00	"
Bromochloromethane	ND	5.00	"
Bromodichloromethane	ND	5.00	"
Bromoform	ND	5.00	"
Bromomethane	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	5.00	"
tert-Butylbenzene	ND	5.00	"
Carbon tetrachloride	ND	5.00	"
Chlorobenzene	ND	5.00	"
Chloroethane	ND	5.00	"
Chloroform	ND	5.00	"
Chloromethane	ND	15.0	"
2-Chlorotoluene	ND	5.00	"
4-Chlorotoluene	ND	5.00	"
Chlorodibromomethane	ND	10.0	"
1,2-Dibromo-3-chloropropane	ND	15.0	"
1,2-Dibromoethane (EDB)	ND	5.00	"
Dibromomethane	ND	5.00	"
1,2-Dichlorobenzene	ND	5.00	"
1,3-Dichlorobenzene	ND	5.00	"
1,4-Dichlorobenzene	ND	5.00	"
Dichlorodifluoromethane	ND	5.00	"
Tert-amyl methyl ether	ND	5.00	"
1,1-Dichloroethane	ND	5.00	"
1,2-Dichloroethane (EDC)	ND	5.00	"
Tert-butyl alcohol	ND	20.0	"
1,1-Dichloroethene	ND	5.00	"
Ethyl tert-butyl ether	ND	10.0	"
cis-1,2-Dichloroethene	ND	5.00	"
Di-isopropyl ether	ND	5.00	"
trans-1,2-Dichloroethene	ND	5.00	"
Methyl tert-butyl ether	ND	5.00	"
1,2-Dichloropropane	ND	5.00	"
1,3-Dichloropropane	ND	5.00	"
2,2-Dichloropropane	ND	10.0	"
1,1-Dichloropropene	ND	5.00	"

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Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Blank (2112716-BLK1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	ND	5.00	ug/kg							
trans-1,3-Dichloropropene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	5.00	"							
p-Isopropyltoluene	ND	10.0	"							
Methylene Chloride	ND	15.0	"							
n-Propylbenzene	ND	5.00	"							
Styrene	ND	10.0	"							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
1,1,1,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	5.00	"							
Toluene	ND	5.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
1,1,2-Trichloroethane	ND	5.00	"							
1,1,1-Trichloroethane	ND	5.00	"							
Trichloroethene	ND	5.00	"							
Trichlorofluoromethane	ND	5.00	"							
1,2,3-Trichloropropane	ND	10.0	"							
1,3,5-Trimethylbenzene	ND	5.00	"							
1,2,4-Trimethylbenzene	ND	5.00	"							
Vinyl chloride	ND	5.00	"							
m,p-Xylene	ND	10.0	"							
o-Xylene	ND	5.00	"							
Surrogate: 1,2-Dichloroethane-d4	41.7		"	39.7		105	30-150			
Surrogate: Toluene-d8	39.8		"	40.0		99.4	30-150			
Surrogate: 4-Bromofluorobenzene	38.8		"	40.0		97.0	30-150			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS (2112716-BS1)

Prepared & Analyzed: 11/27/12

Benzene	148	5.00	ug/kg	150		98.4	58-130			
Bromobenzene	149	5.00	"	150		99.7	87-115			
Bromochloromethane	150	5.00	"	150		100	82-122			
Bromodichloromethane	151	5.00	"	150		101	84-119			
Bromoform	132	5.00	"	150		88.2	76-119			
Bromomethane	138	10.0	"	150		92.2	39-152			
n-Butylbenzene	154	5.00	"	150		103	70-131			
sec-Butylbenzene	150	5.00	"	150		100	74-124			
tert-Butylbenzene	152	5.00	"	150		101	77-121			
Carbon tetrachloride	147	5.00	"	150		98.1	66-127			
Chlorobenzene	156	5.00	"	150		104	82-120			
Chloroethane	148	5.00	"	150		98.4	63-126			
Chloroform	146	5.00	"	150		97.3	82-120			
Chloromethane	140	15.0	"	150		93.5	57-133			
2-Chlorotoluene	148	5.00	"	150		98.4	82-117			
4-Chlorotoluene	148	5.00	"	150		98.4	81-119			
Chlorodibromomethane	141	10.0	"	150		93.8	82-124			
1,2-Dibromo-3-chloropropane	151	15.0	"	150		100	62-128			
1,2-Dibromoethane (EDB)	162	5.00	"	150		108	86-122			
Dibromomethane	153	5.00	"	150		102	83-124			
1,2-Dichlorobenzene	160	5.00	"	150		106	84-120			
1,3-Dichlorobenzene	155	5.00	"	150		103	81-118			
1,4-Dichlorobenzene	151	5.00	"	150		100	80-118			
Dichlorodifluoromethane	142	5.00	"	150		95.0	25-141			
Tert-amyl methyl ether	144	5.00	"	149		96.5	50-147			
1,1-Dichloroethane	146	5.00	"	150		97.5	78-120			
1,2-Dichloroethane (EDC)	154	5.00	"	150		103	81-125			
Tert-butyl alcohol	774	20.0	"	750		103	64-127			
1,1-Dichloroethene	141	5.00	"	150		93.8	71-122			
Ethyl tert-butyl ether	145	10.0	"	150		96.3	80-122			
cis-1,2-Dichloroethene	152	5.00	"	150		101	84-121			
Di-isopropyl ether	144	5.00	"	150		96.3	78-120			
trans-1,2-Dichloroethene	144	5.00	"	150		96.3	77-125			
Methyl tert-butyl ether	145	5.00	"	150		96.5	77-124			
1,2-Dichloropropane	154	5.00	"	150		103	88-114			
1,3-Dichloropropane	158	5.00	"	150		105	86-122			
2,2-Dichloropropane	148	10.0	"	150		98.5	32-150			
1,1-Dichloropropene	150	5.00	"	150		100	71-123			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS (2112716-BS1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	154	5.00	ug/kg	150		102	74-125			
trans-1,3-Dichloropropene	144	5.00	"	150		95.9	72-126			
Ethylbenzene	156	5.00	"	150		104	74-139			
Hexachlorobutadiene	162	5.00	"	150		108	56-144			
Isopropylbenzene	149	5.00	"	150		99.1	72-124			
p-Isopropyltoluene	155	10.0	"	150		103	72-123			
Methylene Chloride	155	15.0	"	150		103	10-183			
n-Propylbenzene	147	5.00	"	150		98.3	76-121			
Styrene	150	10.0	"	150		100	76-133			
1,1,2,2-Tetrachloroethane	160	5.00	"	150		107	60-137			
1,1,1,2-Tetrachloroethane	160	5.00	"	150		106	86-121			
Tetrachloroethene	156	5.00	"	150		104	69-131			
Toluene	146	5.00	"	150		97.6	61-134			
1,2,3-Trichlorobenzene	192	5.00	"	150		128	63-142			
1,2,4-Trichlorobenzene	171	5.00	"	150		114	63-141			
1,1,2-Trichloroethane	162	5.00	"	150		108	75-136			
1,1,1-Trichloroethane	148	5.00	"	150		98.6	71-126			
Trichloroethene	153	5.00	"	150		102	86-118			
Trichlorofluoromethane	152	5.00	"	150		101	62-128			
1,2,3-Trichloropropane	161	10.0	"	150		107	80-118			
1,3,5-Trimethylbenzene	145	5.00	"	150		97.0	72-121			
1,2,4-Trimethylbenzene	147	5.00	"	150		98.1	78-126			
Vinyl chloride	157	5.00	"	150		105	63-134			
m,p-Xylene	299	10.0	"	300		99.6	73-137			
o-Xylene	149	5.00	"	150		99.4	73-141			
Surrogate: 1,2-Dichloroethane-d4	41.4		"	39.7		104	30-150			
Surrogate: Toluene-d8	40.0		"	40.0		99.9	30-150			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.6	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

LCS Dup (2112716-BSD1)

Prepared & Analyzed: 11/27/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	146	5.00	ug/kg	150	97.0	58-130	1.47	13		
Bromobenzene	145	5.00	"	150	96.6	87-115	3.10	10		
Bromochloromethane	145	5.00	"	150	96.9	82-122	3.25	15		
Bromodichloromethane	148	5.00	"	150	98.7	84-119	2.18	10		
Bromoform	124	5.00	"	150	82.7	76-119	6.53	12		
Bromomethane	133	10.0	"	150	88.6	39-152	4.05	21		
n-Butylbenzene	148	5.00	"	150	98.7	70-131	4.05	11		
sec-Butylbenzene	144	5.00	"	150	96.0	74-124	4.06	10		
tert-Butylbenzene	146	5.00	"	150	97.0	77-121	4.28	10		
Carbon tetrachloride	147	5.00	"	150	97.8	66-127	0.306	14		
Chlorobenzene	151	5.00	"	150	101	82-120	3.18	10		
Chloroethane	143	5.00	"	150	95.6	63-126	2.82	16		
Chloroform	146	5.00	"	150	97.6	82-120	0.226	15		
Chloromethane	135	15.0	"	150	90.0	57-133	3.81	16		
2-Chlorotoluene	144	5.00	"	150	96.0	82-117	2.47	11		
4-Chlorotoluene	144	5.00	"	150	96.1	81-119	2.37	10		
Chlorodibromomethane	134	10.0	"	150	89.3	82-124	4.89	11		
1,2-Dibromo-3-chloropropane	146	15.0	"	150	97.1	62-128	3.28	19		
1,2-Dibromoethane (EDB)	160	5.00	"	150	107	86-122	1.45	10		
Dibromomethane	148	5.00	"	150	98.5	83-124	3.59	13		
1,2-Dichlorobenzene	152	5.00	"	150	102	84-120	4.69	10		
1,3-Dichlorobenzene	148	5.00	"	150	98.8	81-118	4.51	10		
1,4-Dichlorobenzene	146	5.00	"	150	97.7	80-118	2.81	10		
Dichlorodifluoromethane	137	5.00	"	150	91.0	25-141	4.26	39		
Tert-amyl methyl ether	143	5.00	"	149	96.0	50-147	0.503	16		
1,1-Dichloroethane	146	5.00	"	150	97.2	78-120	0.247	16		
1,2-Dichloroethane (EDC)	155	5.00	"	150	104	81-125	0.931	15		
Tert-butyl alcohol	697	20.0	"	750	93.0	64-127	10.4	19		
1,1-Dichloroethene	138	5.00	"	150	91.7	71-122	2.28	18		
Ethyl tert-butyl ether	144	10.0	"	150	95.7	80-122	0.645	16		
cis-1,2-Dichloroethene	148	5.00	"	150	98.6	84-121	2.44	18		
Di-isopropyl ether	144	5.00	"	150	96.5	78-120	0.229	18		
trans-1,2-Dichloroethene	143	5.00	"	150	95.4	77-125	0.918	16		
Methyl tert-butyl ether	146	5.00	"	150	97.1	77-124	0.701	18		
1,2-Dichloropropane	149	5.00	"	150	99.6	88-114	3.30	10		
1,3-Dichloropropane	157	5.00	"	150	105	86-122	0.324	10		
2,2-Dichloropropane	140	10.0	"	150	93.4	32-150	5.27	20		
1,1-Dichloropropene	146	5.00	"	150	97.6	71-123	2.63	16		

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2112716 - EPA 5030 Soil MS

LCS Dup (2112716-BSD1)

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	148	5.00	ug/kg	150		98.6	74-125	3.78	18	
trans-1,3-Dichloropropene	137	5.00	"	150		91.3	72-126	4.89	22	
Ethylbenzene	150	5.00	"	150		100	74-139	3.75	12	
Hexachlorobutadiene	153	5.00	"	150		102	56-144	5.35	10	
Isopropylbenzene	145	5.00	"	150		96.9	72-124	2.27	12	
p-Isopropyltoluene	147	10.0	"	150		98.2	72-123	4.97	10	
Methylene Chloride	153	15.0	"	150		102	10-183	1.29	29	
n-Propylbenzene	142	5.00	"	150		94.7	76-121	3.67	10	
Styrene	148	10.0	"	150		98.4	76-133	1.67	13	
1,1,2,2-Tetrachloroethane	150	5.00	"	150		100	60-137	6.47	14	
1,1,1,2-Tetrachloroethane	152	5.00	"	150		101	86-121	4.87	10	
Tetrachloroethene	152	5.00	"	150		101	69-131	2.30	12	
Toluene	141	5.00	"	150		94.3	61-134	3.48	16	
1,2,3-Trichlorobenzene	186	5.00	"	150		124	63-142	3.15	10	
1,2,4-Trichlorobenzene	162	5.00	"	150		108	63-141	5.38	10	
1,1,2-Trichloroethane	154	5.00	"	150		102	75-136	5.18	25	
1,1,1-Trichloroethane	144	5.00	"	150		96.3	71-126	2.34	15	
Trichloroethene	148	5.00	"	150		98.3	86-118	3.91	12	
Trichlorofluoromethane	153	5.00	"	150		102	62-128	0.923	17	
1,2,3-Trichloropropane	152	10.0	"	150		101	80-118	5.47	13	
1,3,5-Trimethylbenzene	142	5.00	"	150		94.3	72-121	2.76	10	
1,2,4-Trimethylbenzene	142	5.00	"	150		94.5	78-126	3.76	10	
Vinyl chloride	152	5.00	"	150		101	63-134	3.27	15	
m,p-Xylene	292	10.0	"	300		97.4	73-137	2.27	14	
o-Xylene	145	5.00	"	150		96.4	73-141	3.04	12	
Surrogate: 1,2-Dichloroethane-d4	41.2		"	39.7		104	30-150			
Surrogate: Toluene-d8	39.0		"	40.0		97.5	30-150			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.6	30-150			

Summit Scientific

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike (2112716-MS1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
Benzene	115	5.00	ug/kg	150	ND	76.5	30-131			
Bromobenzene	97.8	5.00	"	150	ND	65.2	39-124			
Bromochloromethane	129	5.00	"	150	ND	85.8	62-121			
Bromodichloromethane	120	5.00	"	150	ND	79.9	51-120			
Bromoform	110	5.00	"	150	ND	73.2	52-125			
Bromomethane	119	10.0	"	150	ND	79.2	10-152			
n-Butylbenzene	60.7	5.00	"	150	ND	40.5	10-144			
sec-Butylbenzene	69.6	5.00	"	150	ND	46.4	10-140			
tert-Butylbenzene	82.3	5.00	"	150	ND	54.9	16-132			
Carbon tetrachloride	108	5.00	"	150	ND	71.9	46-125			
Chlorobenzene	104	5.00	"	150	ND	69.4	42-125			
Chloroethane	115	5.00	"	150	ND	76.7	46-125			
Chloroform	118	5.00	"	150	ND	78.4	57-118			
Chloromethane	114	15.0	"	150	ND	76.3	33-132			
2-Chlorotoluene	88.7	5.00	"	150	ND	59.1	30-125			
4-Chlorotoluene	86.5	5.00	"	150	ND	57.7	29-127			
Chlorodibromomethane	112	10.0	"	150	ND	74.8	54-124			
1,2-Dibromo-3-chloropropane	139	15.0	"	150	ND	93.0	10-175			
1,2-Dibromoethane (EDB)	137	5.00	"	150	ND	91.5	65-125			
Dibromomethane	139	5.00	"	150	ND	92.6	64-127			
1,2-Dichlorobenzene	92.7	5.00	"	150	ND	61.8	24-134			
1,3-Dichlorobenzene	82.6	5.00	"	150	ND	55.1	22-130			
1,4-Dichlorobenzene	84.6	5.00	"	150	ND	56.4	21-131			
Dichlorodifluoromethane	108	5.00	"	150	ND	71.8	47-117			
Tert-amyl methyl ether	130	5.00	"	149	ND	87.3	60-124			
1,1-Dichloroethane	117	5.00	"	150	ND	77.8	55-119			
1,2-Dichloroethane (EDC)	140	5.00	"	150	ND	93.4	65-124			
Tert-butyl alcohol	817	20.0	"	750	ND	109	64-131			
1,1-Dichloroethene	109	5.00	"	150	ND	72.6	42-145			
Ethyl tert-butyl ether	127	10.0	"	150	ND	84.4	60-119			
cis-1,2-Dichloroethene	119	5.00	"	150	ND	79.3	56-121			
Di-isopropyl ether	124	5.00	"	150	ND	82.6	40-132			
trans-1,2-Dichloroethene	111	5.00	"	150	ND	73.8	52-126			
Methyl tert-butyl ether	141	5.00	"	150	ND	93.6	64-124			
1,2-Dichloropropane	123	5.00	"	150	ND	81.7	61-115			
1,3-Dichloropropane	137	5.00	"	150	ND	91.1	66-123			
2,2-Dichloropropane	109	10.0	"	150	ND	72.7	35-127			
1,1-Dichloropropene	105	5.00	"	150	ND	70.0	52-119			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike (2112716-MS1)

Source: R211165-02

Prepared & Analyzed: 11/27/12

cis-1,3-Dichloropropene	120	5.00	ug/kg	150	ND	80.2	47-122			
trans-1,3-Dichloropropene	115	5.00	"	150	ND	76.6	51-119			
Ethylbenzene	102	5.00	"	150	ND	67.9	22-153			
Hexachlorobutadiene	31.9	5.00	"	150	ND	21.3	10-149			
Isopropylbenzene	89.4	5.00	"	150	ND	59.6	18-135			
p-Isopropyltoluene	74.4	10.0	"	150	ND	49.6	12-132			
Methylene Chloride	127	15.0	"	150	ND	85.0	10-167			
n-Propylbenzene	81.2	5.00	"	150	ND	54.2	15-134			
Styrene	97.6	10.0	"	150	ND	65.1	33-135			
1,1,2,2-Tetrachloroethane	136	5.00	"	150	ND	90.5	10-166			
1,1,1,2-Tetrachloroethane	113	5.00	"	150	ND	75.6	49-123			
Tetrachloroethene	98.2	5.00	"	150	ND	65.4	33-134			
Toluene	108	5.00	"	150	ND	71.9	30-134			
1,2,3-Trichlorobenzene	81.2	5.00	"	150	ND	54.1	10-155			
1,2,4-Trichlorobenzene	68.0	5.00	"	150	ND	45.3	10-152			
1,1,2-Trichloroethane	140	5.00	"	150	ND	93.1	46-139			
1,1,1-Trichloroethane	110	5.00	"	150	ND	73.3	51-124			
Trichloroethene	110	5.00	"	150	ND	73.2	16-187			
Trichlorofluoromethane	122	5.00	"	150	ND	81.7	53-125			
1,2,3-Trichloropropane	145	10.0	"	150	ND	96.5	69-118			
1,3,5-Trimethylbenzene	87.9	5.00	"	150	ND	58.6	20-128			
1,2,4-Trimethylbenzene	86.2	5.00	"	150	ND	57.4	17-142			
Vinyl chloride	123	5.00	"	150	ND	82.1	50-134			
m,p-Xylene	197	10.0	"	300	ND	65.7	10-159			
o-Xylene	97.8	5.00	"	150	ND	65.2	31-151			
Surrogate: 1,2-Dichloroethane-d4	46.4		"	39.7		117	30-150			
Surrogate: Toluene-d8	39.8		"	40.0		99.6	30-150			
Surrogate: 4-Bromofluorobenzene	37.5		"	40.0		93.8	30-150			

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Project Manager: Craig Lugowski

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike Dup (2112716-MSD1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
Benzene	122	5.00	ug/kg	150	ND	81.5	30-131	6.38	34	
Bromobenzene	97.9	5.00	"	150	ND	65.3	39-124	0.123	21	
Bromochloromethane	141	5.00	"	150	ND	94.2	62-121	9.38	20	
Bromodichloromethane	127	5.00	"	150	ND	84.4	51-120	5.48	22	
Bromoform	114	5.00	"	150	ND	75.7	52-125	3.28	22	
Bromomethane	127	10.0	"	150	ND	84.8	10-152	6.83	90	
n-Butylbenzene	55.6	5.00	"	150	ND	37.0	10-144	8.88	52	
sec-Butylbenzene	66.0	5.00	"	150	ND	44.0	10-140	5.22	45	
tert-Butylbenzene	78.5	5.00	"	150	ND	52.3	16-132	4.78	33	
Carbon tetrachloride	112	5.00	"	150	ND	74.9	46-125	4.08	22	
Chlorobenzene	106	5.00	"	150	ND	70.7	42-125	1.83	18	
Chloroethane	126	5.00	"	150	ND	84.0	46-125	9.18	24	
Chloroform	124	5.00	"	150	ND	82.9	57-118	5.65	19	
Chloromethane	125	15.0	"	150	ND	83.6	33-132	9.15	18	
2-Chlorotoluene	86.0	5.00	"	150	ND	57.4	30-125	3.06	24	
4-Chlorotoluene	86.7	5.00	"	150	ND	57.8	29-127	0.208	24	
Chlorodibromomethane	114	10.0	"	150	ND	76.2	54-124	1.78	22	
1,2-Dibromo-3-chloropropane	144	15.0	"	150	ND	95.9	10-175	3.09	39	
1,2-Dibromoethane (EDB)	146	5.00	"	150	ND	97.3	65-125	6.19	22	
Dibromomethane	149	5.00	"	150	ND	99.5	64-127	7.12	19	
1,2-Dichlorobenzene	90.6	5.00	"	150	ND	60.4	24-134	2.36	26	
1,3-Dichlorobenzene	79.7	5.00	"	150	ND	53.2	22-130	3.55	27	
1,4-Dichlorobenzene	82.1	5.00	"	150	ND	54.8	21-131	2.95	25	
Dichlorodifluoromethane	115	5.00	"	150	ND	76.9	47-117	6.89	36	
Tert-amyl methyl ether	142	5.00	"	149	ND	95.4	60-124	8.92	40	
1,1-Dichloroethane	124	5.00	"	150	ND	82.9	55-119	6.35	22	
1,2-Dichloroethane (EDC)	149	5.00	"	150	ND	99.1	65-124	5.90	19	
Tert-butyl alcohol	894	20.0	"	750	ND	119	64-131	9.05	24	
1,1-Dichloroethene	116	5.00	"	150	ND	77.0	42-145	5.94	22	
Ethyl tert-butyl ether	139	10.0	"	150	ND	92.8	60-119	9.42	38	
cis-1,2-Dichloroethene	123	5.00	"	150	ND	82.0	56-121	3.37	21	
Di-isopropyl ether	133	5.00	"	150	ND	88.9	40-132	7.29	108	
trans-1,2-Dichloroethene	117	5.00	"	150	ND	78.0	52-126	5.56	22	
Methyl tert-butyl ether	152	5.00	"	150	ND	101	64-124	7.51	28	
1,2-Dichloropropane	133	5.00	"	150	ND	88.6	61-115	8.15	17	
1,3-Dichloropropane	144	5.00	"	150	ND	96.3	66-123	5.55	24	
2,2-Dichloropropane	114	10.0	"	150	ND	76.2	35-127	4.78	29	
1,1-Dichloropropene	110	5.00	"	150	ND	73.6	52-119	5.07	21	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112716 - EPA 5030 Soil MS

Matrix Spike Dup (2112716-MSD1)	Source: R211165-02			Prepared & Analyzed: 11/27/12						
cis-1,3-Dichloropropene	130	5.00	ug/kg	150	ND	86.7	47-122	7.79	40	
trans-1,3-Dichloropropene	124	5.00	"	150	ND	82.4	51-119	7.27	52	
Ethylbenzene	104	5.00	"	150	ND	69.1	22-153	1.81	24	
Hexachlorobutadiene	29.4	5.00	"	150	ND	19.6	10-149	8.23	59	
Isopropylbenzene	89.2	5.00	"	150	ND	59.5	18-135	0.235	33	
p-Isopropyltoluene	69.4	10.0	"	150	ND	46.3	12-132	7.01	38	
Methylene Chloride	147	15.0	"	150	ND	97.9	10-167	14.1	102	
n-Propylbenzene	78.0	5.00	"	150	ND	52.0	15-134	4.03	37	
Styrene	99.9	10.0	"	150	ND	66.6	33-135	2.31	22	
1,1,2,2-Tetrachloroethane	142	5.00	"	150	ND	94.7	10-166	4.47	45	
1,1,1,2-Tetrachloroethane	121	5.00	"	150	ND	80.8	49-123	6.57	21	
Tetrachloroethene	97.0	5.00	"	150	ND	64.6	33-134	1.23	26	
Toluene	113	5.00	"	150	ND	75.4	30-134	4.67	30	
1,2,3-Trichlorobenzene	74.7	5.00	"	150	ND	49.8	10-155	8.35	40	
1,2,4-Trichlorobenzene	62.6	5.00	"	150	ND	41.7	10-152	8.23	42	
1,1,2-Trichloroethane	150	5.00	"	150	ND	100	46-139	7.13	34	
1,1,1-Trichloroethane	116	5.00	"	150	ND	77.1	51-124	5.05	22	
Trichloroethene	113	5.00	"	150	ND	75.1	16-187	2.64	19	
Trichlorofluoromethane	128	5.00	"	150	ND	85.6	53-125	4.73	20	
1,2,3-Trichloropropane	150	10.0	"	150	ND	99.9	69-118	3.42	23	
1,3,5-Trimethylbenzene	86.6	5.00	"	150	ND	57.7	20-128	1.51	31	
1,2,4-Trimethylbenzene	82.4	5.00	"	150	ND	55.0	17-142	4.41	40	
Vinyl chloride	131	5.00	"	150	ND	87.2	50-134	6.02	22	
m,p-Xylene	201	10.0	"	300	ND	67.1	10-159	2.23	68	
o-Xylene	103	5.00	"	150	ND	68.3	31-151	4.73	38	
Surrogate: 1,2-Dichloroethane-d4	47.3		"	39.7		119	30-150			
Surrogate: Toluene-d8	40.8		"	40.0		102	30-150			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.6	30-150			

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Project: 1770 13th St
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Project Manager: Craig Lugowski

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

Blank (2112717-BLK1)

Prepared & Analyzed: 11/27/12

Benzene	ND	1.00	ug/l
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	5.00	"
Bromodichloromethane	ND	2.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	1.00	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	5.00	"
Chloromethane	ND	1.00	"
Chlorodibromomethane	ND	1.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	1.00	"
1,2-Dibromoethane (EDB)	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	1.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane (EDC)	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"
cis-1,3-Dichloropropene	ND	1.00	"
trans-1,3-Dichloropropene	ND	1.00	"
Ethylbenzene	ND	1.00	"
Hexachlorobutadiene	ND	1.00	"
Tert-amyl methyl ether	ND	1.00	"

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2112717 - EPA 5030 Water MS

Blank (2112717-BLK1)

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	ND	10.0	ug/l						
Tert-butyl alcohol	ND	20.0	"						
Isopropylbenzene	ND	1.00	"						
Di-isopropyl ether	ND	5.00	"						
p-Isopropyltoluene	ND	1.00	"						
Methylene Chloride	ND	5.00	"						
Methyl tert-butyl ether	ND	5.00	"						
n-Propylbenzene	ND	1.00	"						
Styrene	ND	1.00	"						
1,1,2,2-Tetrachloroethane	ND	1.00	"						
1,1,1,2-Tetrachloroethane	ND	1.00	"						
Tetrachloroethene	ND	1.00	"						
Toluene	ND	1.00	"						
1,2,3-Trichlorobenzene	ND	1.00	"						
1,2,4-Trichlorobenzene	ND	1.00	"						
1,1,2-Trichloroethane	ND	1.00	"						
1,1,1-Trichloroethane	ND	1.00	"						
Trichloroethene	ND	1.00	"						
Trichlorofluoromethane	ND	1.00	"						
1,2,3-Trichloropropane	ND	1.00	"						
1,3,5-Trimethylbenzene	ND	1.00	"						
1,2,4-Trimethylbenzene	ND	1.00	"						
Vinyl chloride	ND	1.00	"						
m,p-Xylene	ND	2.00	"						
o-Xylene	ND	1.00	"						
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.2	110	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3	99.6	51-150			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.7	50.1-150			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS (2112717-BS1)

Prepared & Analyzed: 11/27/12

Benzene	49.4	1.00	ug/l	50.0		98.9	51-132			
Bromobenzene	51.6	1.00	"	50.0		103	90-110			
Bromochloromethane	49.8	5.00	"	50.0		99.5	83-120			
Bromodichloromethane	54.6	2.00	"	50.0		109	82-117			
Bromoform	46.4	1.00	"	50.0		92.8	76-112			
Bromomethane	46.1	1.00	"	50.0		92.3	60-144			
n-Butylbenzene	52.1	1.00	"	50.0		104	81-118			
sec-Butylbenzene	50.9	1.00	"	50.0		102	84-113			
tert-Butylbenzene	51.9	1.00	"	50.0		104	87-112			
Carbon tetrachloride	48.4	1.00	"	50.0		96.7	68-118			
Chlorobenzene	54.1	1.00	"	50.0		108	87-113			
Chloroethane	46.4	1.00	"	50.0		92.8	48-147			
Chloroform	48.9	5.00	"	50.0		97.7	85-116			
Chloromethane	45.6	1.00	"	50.0		91.2	60-133			
Chlorodibromomethane	49.5	1.00	"	50.0		99.0	80-117			
2-Chlorotoluene	51.7	1.00	"	50.0		103	84-117			
4-Chlorotoluene	51.0	1.00	"	50.0		102	86-114			
1,2-Dibromo-3-chloropropane	51.3	1.00	"	50.0		103	62-126			
1,2-Dibromoethane (EDB)	55.9	1.00	"	50.0		112	84-119			
Dibromomethane	54.2	1.00	"	50.0		108	83-118			
1,2-Dichlorobenzene	54.6	1.00	"	50.0		109	90-110			
1,3-Dichlorobenzene	53.3	1.00	"	50.0		107	90-110			
1,4-Dichlorobenzene	52.0	1.00	"	50.0		104	87-110			
Dichlorodifluoromethane	43.1	1.00	"	50.0		86.2	60-115			
1,1-Dichloroethane	47.1	1.00	"	50.0		94.2	71-131			
1,2-Dichloroethane (EDC)	53.2	1.00	"	50.0		106	84-117			
1,1-Dichloroethene	43.6	1.00	"	50.0		87.1	69-129			
cis-1,2-Dichloroethene	49.3	1.00	"	50.0		98.7	81-124			
trans-1,2-Dichloroethene	46.7	1.00	"	50.0		93.4	66-140			
1,2-Dichloropropane	53.1	1.00	"	50.0		106	86-114			
1,3-Dichloropropane	54.7	1.00	"	50.0		109	83-122			
2,2-Dichloropropane	44.4	1.00	"	50.0		88.9	42-130			
1,1-Dichloropropene	49.0	1.00	"	50.0		98.0	75-117			
cis-1,3-Dichloropropene	53.2	1.00	"	50.0		106	72-125			
trans-1,3-Dichloropropene	49.9	1.00	"	50.0		99.8	73-120			
Ethylbenzene	52.4	1.00	"	50.0		105	58-146			
Hexachlorobutadiene	55.0	1.00	"	50.0		110	78-118			
Tert-amyl methyl ether	48.3	1.00	"	49.6		97.4	72-128			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS (2112717-BS1)

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	47.8	10.0	ug/l	50.1		95.4	74-131			
Tert-butyl alcohol	258	20.0	"	250		103	66-115			
Isopropylbenzene	51.0	1.00	"	50.0		102	77-115			
Di-isopropyl ether	48.0	5.00	"	49.9		96.2	77-119			
p-Isopropyltoluene	52.8	1.00	"	50.0		106	84-110			
Methylene Chloride	51.4	5.00	"	50.0		103	36-156			
Methyl tert-butyl ether	47.7	5.00	"	50.1		95.3	71-130			
n-Propylbenzene	50.0	1.00	"	50.0		100	82-117			
Styrene	53.4	1.00	"	50.0		107	82-123			
1,1,2,2-Tetrachloroethane	55.2	1.00	"	50.0		110	66-126			
1,1,1,2-Tetrachloroethane	55.4	1.00	"	50.0		111	86-116			
Tetrachloroethane	49.8	1.00	"	50.0		99.6	74-121			
Toluene	49.8	1.00	"	50.0		99.5	51-138			
1,2,3-Trichlorobenzene	55.1	1.00	"	50.0		110	81-122			
1,2,4-Trichlorobenzene	48.4	1.00	"	50.0		96.8	87-115			
1,1,2-Trichloroethane	57.1	1.00	"	50.0		114	77-129			
1,1,1-Trichloroethane	46.6	1.00	"	50.0		93.2	75-120			
Trichloroethene	50.1	1.00	"	50.0		100	88-114			
Trichlorofluoromethane	48.0	1.00	"	50.0		95.9	65-129			
1,2,3-Trichloropropane	54.4	1.00	"	50.0		109	72-128			
1,3,5-Trimethylbenzene	49.2	1.00	"	50.0		98.5	86-110			
1,2,4-Trimethylbenzene	51.2	1.00	"	50.0		102	85-117			
Vinyl chloride	47.9	1.00	"	50.0		95.8	65-133			
m,p-Xylene	102	2.00	"	100		102	57-144			
o-Xylene	51.3	1.00	"	50.0		103	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		104	49.7-150			
Surrogate: Toluene-d8	13.6		"	13.3		102	51-150			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.3	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS Dup (2112717-BSD1)

Prepared & Analyzed: 11/27/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	48.4	1.00	ug/l	50.0	96.9	51-132	2.08	17		
Bromobenzene	50.0	1.00	"	50.0	100	90-110	3.09	10		
Bromochloromethane	48.7	5.00	"	50.0	97.3	83-120	2.19	19		
Bromodichloromethane	49.4	2.00	"	50.0	98.9	82-117	9.81	15		
Bromoform	44.8	1.00	"	50.0	89.5	76-112	3.58	12		
Bromomethane	47.0	1.00	"	50.0	94.0	60-144	1.83	24		
n-Butylbenzene	51.4	1.00	"	50.0	103	81-118	1.35	10		
sec-Butylbenzene	49.8	1.00	"	50.0	99.7	84-113	2.12	10		
tert-Butylbenzene	50.2	1.00	"	50.0	100	87-112	3.39	10		
Carbon tetrachloride	45.2	1.00	"	50.0	90.3	68-118	6.84	13		
Chlorobenzene	50.6	1.00	"	50.0	101	87-113	6.82	13		
Chloroethane	47.0	1.00	"	50.0	93.9	48-147	1.16	24		
Chloroform	48.0	5.00	"	50.0	96.0	85-116	1.75	19		
Chloromethane	46.6	1.00	"	50.0	93.2	60-133	2.13	23		
Chlorodibromomethane	45.6	1.00	"	50.0	91.1	80-117	8.27	12		
2-Chlorotoluene	49.6	1.00	"	50.0	99.2	84-117	4.03	10		
4-Chlorotoluene	48.9	1.00	"	50.0	97.7	86-114	4.31	10		
1,2-Dibromo-3-chloropropane	51.0	1.00	"	50.0	102	62-126	0.626	10		
1,2-Dibromoethane (EDB)	52.5	1.00	"	50.0	105	84-119	6.16	12		
Dibromomethane	51.9	1.00	"	50.0	104	83-118	4.28	14		
1,2-Dichlorobenzene	53.7	1.00	"	50.0	107	90-110	1.57	10		
1,3-Dichlorobenzene	51.4	1.00	"	50.0	103	90-110	3.59	10		
1,4-Dichlorobenzene	50.8	1.00	"	50.0	102	87-110	2.47	10		
Dichlorodifluoromethane	42.7	1.00	"	50.0	85.5	60-115	0.885	21		
1,1-Dichloroethane	46.5	1.00	"	50.0	93.1	71-131	1.17	20		
1,2-Dichloroethane (EDC)	51.9	1.00	"	50.0	104	84-117	2.57	12		
1,1-Dichloroethene	44.5	1.00	"	50.0	89.1	69-129	2.20	22		
cis-1,2-Dichloroethene	48.6	1.00	"	50.0	97.2	81-124	1.53	20		
trans-1,2-Dichloroethene	46.5	1.00	"	50.0	92.9	66-140	0.494	22		
1,2-Dichloropropane	49.6	1.00	"	50.0	99.3	86-114	6.72	14		
1,3-Dichloropropane	52.3	1.00	"	50.0	105	83-122	4.58	12		
2,2-Dichloropropane	43.6	1.00	"	50.0	87.3	42-130	1.86	19		
1,1-Dichloropropene	46.6	1.00	"	50.0	93.3	75-117	4.95	14		
cis-1,3-Dichloropropene	50.4	1.00	"	50.0	101	72-125	5.41	21		
trans-1,3-Dichloropropene	46.8	1.00	"	50.0	93.5	73-120	6.48	16		
Ethylbenzene	48.9	1.00	"	50.0	97.8	58-146	6.89	16		
Hexachlorobutadiene	54.6	1.00	"	50.0	109	78-118	0.620	10		
Tert-amyl methyl ether	46.7	1.00	"	49.6	94.2	72-128	3.39	18		

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

LCS Dup (2112717-BSD1)

Prepared & Analyzed: 11/27/12

Tert-butyl alcohol	256	20.0	ug/l	250	102	66-115	0.647	19	
Ethyl tert-butyl ether	47.2	10.0	"	50.1	94.2	74-131	1.33	20	
Di-isopropyl ether	47.4	5.00	"	49.9	94.9	77-119	1.38	20	
Isopropylbenzene	48.0	1.00	"	50.0	96.1	77-115	6.06	14	
p-Isopropyltoluene	51.5	1.00	"	50.0	103	84-110	2.61	11	
Methylene Chloride	51.5	5.00	"	50.0	103	36-156	0.214	32	
Methyl tert-butyl ether	48.6	5.00	"	50.1	97.0	71-130	1.79	22	
n-Propylbenzene	48.3	1.00	"	50.0	96.6	82-117	3.52	10	
Styrene	50.1	1.00	"	50.0	100	82-123	6.22	14	
1,1,2,2-Tetrachloroethane	53.7	1.00	"	50.0	107	66-126	2.88	10	
1,1,1,2-Tetrachloroethane	51.1	1.00	"	50.0	102	86-116	8.18	14	
Tetrachloroethane	47.0	1.00	"	50.0	93.9	74-121	5.91	14	
Toluene	46.4	1.00	"	50.0	92.8	51-138	6.97	17	
1,2,3-Trichlorobenzene	57.2	1.00	"	50.0	114	81-122	3.65	10	
1,2,4-Trichlorobenzene	48.4	1.00	"	50.0	96.8	87-115	0.0413	10	
1,1,2-Trichloroethane	53.5	1.00	"	50.0	107	77-129	6.47	17	
1,1,1-Trichloroethane	45.7	1.00	"	50.0	91.4	75-120	1.97	16	
Trichloroethene	48.2	1.00	"	50.0	96.3	88-114	3.95	14	
Trichlorofluoromethane	47.7	1.00	"	50.0	95.5	65-129	0.460	22	
1,2,3-Trichloropropane	52.4	1.00	"	50.0	105	72-128	3.73	10	
1,3,5-Trimethylbenzene	47.5	1.00	"	50.0	94.9	86-110	3.66	10	
1,2,4-Trimethylbenzene	49.5	1.00	"	50.0	99.0	85-117	3.42	10	
Vinyl chloride	49.4	1.00	"	50.0	98.9	65-133	3.14	21	
m,p-Xylene	95.3	2.00	"	100	95.3	57-144	6.71	16	
o-Xylene	48.9	1.00	"	50.0	97.9	53-146	4.79	15	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2	105	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3	100	51-150			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3	91.5	50.1-150			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

Matrix Spike (2112717-MS1)	Source: R211149-02			Prepared & Analyzed: 11/27/12						
Benzene	50.4	1.00	ug/l	50.0	ND	101	34-141			
Bromobenzene	45.8	1.00	"	50.0	ND	91.7	66-131			
Bromochloromethane	50.1	5.00	"	50.0	ND	100	74-125			
Bromodichloromethane	49.3	2.00	"	50.0	ND	98.6	64-131			
Bromoform	40.3	1.00	"	50.0	ND	80.5	63-122			
Bromomethane	48.7	1.00	"	50.0	ND	97.3	46-155			
n-Butylbenzene	48.3	1.00	"	50.0	ND	96.6	47-142			
sec-Butylbenzene	47.4	1.00	"	50.0	ND	94.8	52-135			
tert-Butylbenzene	47.6	1.00	"	50.0	ND	95.2	53-137			
Carbon tetrachloride	53.5	1.00	"	50.0	ND	107	62-121			
Chlorobenzene	49.3	1.00	"	50.0	ND	98.6	64-131			
Chloroethane	51.2	1.00	"	50.0	ND	102	60-130			
Chloroform	49.1	5.00	"	50.0	ND	98.1	70-130			
Chloromethane	50.4	1.00	"	50.0	ND	101	62-130			
Chlorodibromomethane	42.5	1.00	"	50.0	ND	85.0	60-134			
2-Chlorotoluene	46.9	1.00	"	50.0	ND	93.8	58-138			
4-Chlorotoluene	46.5	1.00	"	50.0	ND	93.1	62-131			
1,2-Dibromo-3-chloropropane	49.7	1.00	"	50.0	ND	99.4	63-125			
1,2-Dibromoethane (EDB)	50.0	1.00	"	50.0	ND	100	66-131			
Dibromomethane	50.7	1.00	"	50.0	ND	101	70-127			
1,2-Dichlorobenzene	48.6	1.00	"	50.0	ND	97.2	62-134			
1,3-Dichlorobenzene	47.6	1.00	"	50.0	ND	95.3	60-133			
1,4-Dichlorobenzene	46.7	1.00	"	50.0	ND	93.5	63-127			
Dichlorodifluoromethane	51.3	1.00	"	50.0	ND	103	24-136			
1,1-Dichloroethane	49.2	1.00	"	50.0	ND	98.4	73-124			
1,2-Dichloroethane (EDC)	51.1	1.00	"	50.0	ND	102	75-122			
1,1-Dichloroethene	52.1	1.00	"	50.0	ND	104	70-123			
cis-1,2-Dichloroethene	49.4	1.00	"	50.0	ND	98.7	72-129			
trans-1,2-Dichloroethene	50.8	1.00	"	50.0	ND	102	76-126			
1,2-Dichloropropane	49.3	1.00	"	50.0	ND	98.6	68-129			
1,3-Dichloropropane	49.5	1.00	"	50.0	ND	99.0	69-130			
2,2-Dichloropropane	52.4	1.00	"	50.0	ND	105	37-126			
1,1-Dichloropropene	54.1	1.00	"	50.0	ND	108	61-125			
cis-1,3-Dichloropropene	50.1	1.00	"	50.0	ND	100	59-127			
trans-1,3-Dichloropropene	45.6	1.00	"	50.0	ND	91.3	59-126			
Ethylbenzene	49.7	1.00	"	50.0	ND	99.4	29-160			
Hexachlorobutadiene	46.7	1.00	"	50.0	ND	93.4	41-141			
Tert-amyl methyl ether	46.5	1.00	"	49.6	ND	93.8	61-132			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

Matrix Spike (2112717-MS1)

Source: R211149-02

Prepared & Analyzed: 11/27/12

Ethyl tert-butyl ether	47.2	10.0	ug/l	50.1	ND	94.2	65-130			
Tert-butyl alcohol	259	20.0	"	250	ND	104	60-130			
Isopropylbenzene	48.7	1.00	"	50.0	ND	97.5	44-143			
Di-isopropyl ether	48.4	5.00	"	49.9	ND	96.9	73-128			
p-Isopropyltoluene	48.0	1.00	"	50.0	ND	96.0	47-137			
Methylene Chloride	49.1	5.00	"	50.0	ND	98.2	42-129			
Methyl tert-butyl ether	48.5	5.00	"	50.1	ND	96.8	70-124			
n-Propylbenzene	47.4	1.00	"	50.0	ND	94.9	61-129			
Styrene	46.4	1.00	"	50.0	ND	92.7	36-146			
1,1,2,2-Tetrachloroethane	50.7	1.00	"	50.0	ND	101	71-140			
1,1,1,2-Tetrachloroethane	48.0	1.00	"	50.0	ND	96.0	59-137			
Tetrachloroethene	51.7	1.00	"	50.0	ND	103	49-137			
Toluene	48.7	1.00	"	50.0	ND	97.4	27-151			
1,2,3-Trichlorobenzene	59.4	1.00	"	50.0	ND	119	61-137			
1,2,4-Trichlorobenzene	53.1	1.00	"	50.0	ND	106	55-141			
1,1,2-Trichloroethane	50.1	1.00	"	50.0	ND	100	67-134			
1,1,1-Trichloroethane	51.7	1.00	"	50.0	ND	103	66-128			
Trichloroethene	50.8	1.00	"	50.0	ND	102	65-119			
Trichlorofluoromethane	57.3	1.00	"	50.0	ND	115	65-121			
1,2,3-Trichloropropane	48.0	1.00	"	50.0	ND	95.9	69-125			
1,3,5-Trimethylbenzene	47.5	1.00	"	50.0	ND	95.1	50-138			
1,2,4-Trimethylbenzene	46.8	1.00	"	50.0	ND	93.7	54-137			
Vinyl chloride	56.0	1.00	"	50.0	ND	112	71-124			
m,p-Xylene	96.9	2.00	"	100	ND	96.9	20-166			
o-Xylene	46.7	1.00	"	50.0	ND	93.4	33-159			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.7</i>		<i>"</i>	<i>13.2</i>		<i>111</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.6</i>	<i>50.1-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2112717 - EPA 5030 Water MS

Matrix Spike Dup (2112717-MSD1)	Source: R211149-02			Prepared & Analyzed: 11/27/12						
Benzene	49.3	1.00	ug/l	50.0	ND	98.6	34-141	2.19	32	
Bromobenzene	46.4	1.00	"	50.0	ND	92.9	66-131	1.30	30	
Bromochloromethane	47.1	5.00	"	50.0	ND	94.3	74-125	6.09	30	
Bromodichloromethane	48.3	2.00	"	50.0	ND	96.5	64-131	2.15	30	
Bromoform	40.0	1.00	"	50.0	ND	79.9	63-122	0.748	27	
Bromomethane	45.6	1.00	"	50.0	ND	91.3	46-155	6.45	95	
n-Butylbenzene	48.1	1.00	"	50.0	ND	96.2	47-142	0.353	33	
sec-Butylbenzene	46.8	1.00	"	50.0	ND	93.7	52-135	1.19	33	
tert-Butylbenzene	47.1	1.00	"	50.0	ND	94.3	53-137	0.971	38	
Carbon tetrachloride	50.5	1.00	"	50.0	ND	101	62-121	5.78	21	
Chlorobenzene	48.6	1.00	"	50.0	ND	97.3	64-131	1.37	30	
Chloroethane	47.2	1.00	"	50.0	ND	94.4	60-130	8.17	29	
Chloroform	46.6	5.00	"	50.0	ND	93.1	70-130	5.23	32	
Chloromethane	46.6	1.00	"	50.0	ND	93.2	62-130	7.76	24	
Chlorodibromomethane	42.4	1.00	"	50.0	ND	84.7	60-134	0.353	30	
2-Chlorotoluene	46.5	1.00	"	50.0	ND	93.1	58-138	0.771	34	
4-Chlorotoluene	46.7	1.00	"	50.0	ND	93.3	62-131	0.279	29	
1,2-Dibromo-3-chloropropane	47.6	1.00	"	50.0	ND	95.2	63-125	4.34	34	
1,2-Dibromoethane (EDB)	50.9	1.00	"	50.0	ND	102	66-131	1.82	31	
Dibromomethane	50.1	1.00	"	50.0	ND	100	70-127	1.05	28	
1,2-Dichlorobenzene	48.6	1.00	"	50.0	ND	97.2	62-134	0.00	29	
1,3-Dichlorobenzene	47.7	1.00	"	50.0	ND	95.4	60-133	0.189	30	
1,4-Dichlorobenzene	46.2	1.00	"	50.0	ND	92.4	63-127	1.12	31	
Dichlorodifluoromethane	45.7	1.00	"	50.0	ND	91.4	24-136	11.5	31	
1,1-Dichloroethane	46.7	1.00	"	50.0	ND	93.3	73-124	5.30	33	
1,2-Dichloroethane (EDC)	50.7	1.00	"	50.0	ND	101	75-122	0.707	19	
1,1-Dichloroethene	47.7	1.00	"	50.0	ND	95.5	70-123	8.70	32	
cis-1,2-Dichloroethene	47.7	1.00	"	50.0	ND	95.3	72-129	3.48	31	
trans-1,2-Dichloroethene	47.4	1.00	"	50.0	ND	94.9	76-126	6.76	31	
1,2-Dichloropropane	48.8	1.00	"	50.0	ND	97.5	68-129	1.16	29	
1,3-Dichloropropane	49.9	1.00	"	50.0	ND	99.8	69-130	0.825	31	
2,2-Dichloropropane	47.6	1.00	"	50.0	ND	95.2	37-126	9.63	33	
1,1-Dichloropropene	51.2	1.00	"	50.0	ND	102	61-125	5.57	28	
cis-1,3-Dichloropropene	48.9	1.00	"	50.0	ND	97.8	59-127	2.39	28	
trans-1,3-Dichloropropene	44.8	1.00	"	50.0	ND	89.6	59-126	1.88	28	
Ethylbenzene	48.8	1.00	"	50.0	ND	97.6	29-160	1.83	50	
Hexachlorobutadiene	49.8	1.00	"	50.0	ND	99.7	41-141	6.53	35	
Tert-amyl methyl ether	44.7	1.00	"	49.6	ND	90.2	61-132	3.94	34	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112717 - EPA 5030 Water MS

Matrix Spike Dup (2112717-MSD1)	Source: R211149-02			Prepared & Analyzed: 11/27/12						
Ethyl tert-butyl ether	45.4	10.0	ug/l	50.1	ND	90.7	65-130	3.74	38	
Tert-butyl alcohol	245	20.0	"	250	ND	98.0	60-130	5.64	31	
Isopropylbenzene	47.5	1.00	"	50.0	ND	95.0	44-143	2.58	35	
Di-isopropyl ether	45.8	5.00	"	49.9	ND	91.7	73-128	5.52	25	
p-Isopropyltoluene	48.0	1.00	"	50.0	ND	96.1	47-137	0.104	38	
Methylene Chloride	45.8	5.00	"	50.0	ND	91.5	42-129	7.02	31	
Methyl tert-butyl ether	46.2	5.00	"	50.1	ND	92.3	70-124	4.81	35	
n-Propylbenzene	46.4	1.00	"	50.0	ND	92.7	61-129	2.32	35	
Styrene	46.6	1.00	"	50.0	ND	93.2	36-146	0.538	33	
1,1,2,2-Tetrachloroethane	50.8	1.00	"	50.0	ND	102	71-140	0.256	32	
1,1,1,2-Tetrachloroethane	47.9	1.00	"	50.0	ND	95.8	59-137	0.250	32	
Tetrachloroethane	49.6	1.00	"	50.0	ND	99.3	49-137	4.07	32	
Toluene	47.6	1.00	"	50.0	ND	95.1	27-151	2.35	25	
1,2,3-Trichlorobenzene	61.8	1.00	"	50.0	ND	124	61-137	3.89	27	
1,2,4-Trichlorobenzene	53.7	1.00	"	50.0	ND	107	55-141	1.05	28	
1,1,2-Trichloroethane	49.3	1.00	"	50.0	ND	98.7	67-134	1.45	29	
1,1,1-Trichloroethane	48.7	1.00	"	50.0	ND	97.5	66-128	5.91	31	
Trichloroethene	49.2	1.00	"	50.0	ND	98.4	65-119	3.20	30	
Trichlorofluoromethane	50.9	1.00	"	50.0	ND	102	65-121	11.8	30	
1,2,3-Trichloropropane	49.9	1.00	"	50.0	ND	99.9	69-125	4.04	33	
1,3,5-Trimethylbenzene	46.7	1.00	"	50.0	ND	93.3	50-138	1.87	34	
1,2,4-Trimethylbenzene	46.4	1.00	"	50.0	ND	92.8	54-137	0.901	34	
Vinyl chloride	51.3	1.00	"	50.0	ND	103	71-124	8.87	26	
m,p-Xylene	94.4	2.00	"	100	ND	94.4	20-166	2.55	36	
o-Xylene	46.3	1.00	"	50.0	ND	92.6	33-159	0.774	26	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	49.7-150			
Surrogate: Toluene-d8	13.6		"	13.3		102	51-150			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112805 - EPA 3510B

Blank (2112805-BLK1)

Prepared: 11/28/12 Analyzed: 12/01/12

Acenaphthene	ND	10.0	ug/l
Acenaphthylene	ND	10.0	"
Anthracene	ND	10.0	"
Bis(2-ethylhexyl)adipate	ND	20.0	"
Benzo (a) anthracene	ND	10.0	"
Benzo (b) fluoranthene	ND	10.0	"
Benzo (k) fluoranthene	ND	10.0	"
Benzo (g,h,i) perylene	ND	10.0	"
Benzo (a) pyrene	ND	10.0	"
Benzyl alcohol	ND	20.0	"
Benzoic acid	ND	30.0	"
Pyridine	ND	20.0	"
Bis(2-chloroethoxy)methane	ND	10.0	"
N-Nitrosodimethylamine	ND	20.0	"
Bis(2-chloroethyl)ether	ND	10.0	"
Bis(2-chloroisopropyl)ether	ND	10.0	"
Bis(2-ethylhexyl)phthalate	ND	10.0	"
4-Bromophenyl phenyl ether	ND	10.0	"
Butyl benzyl phthalate	ND	10.0	"
4-Chloroaniline	ND	20.0	"
4-Chloro-3-methylphenol	ND	20.0	"
2-Chloronaphthalene	ND	10.0	"
2-Chlorophenol	ND	10.0	"
4-Chlorophenyl phenyl ether	ND	10.0	"
Chrysene	ND	10.0	"
Dibenz (a,h) anthracene	ND	10.0	"
Dibenzofuran	ND	10.0	"
Di-n-butyl phthalate	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
2,4-Dichlorophenol	ND	10.0	"
Diethyl phthalate	ND	10.0	"
2,4-Dimethylphenol	ND	10.0	"
Carbazole	ND	20.0	"
Dimethyl phthalate	ND	10.0	"
4,6-Dinitro-2-methylphenol	ND	30.0	"
2,4-Dinitrophenol	ND	30.0	"

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112805 - EPA 3510B

Blank (2112805-BLK1)

Prepared: 11/28/12 Analyzed: 12/01/12

Azobenzene	ND	20.0	ug/l							
2,4-Dinitrotoluene	ND	10.0	"							
2,6-Dinitrotoluene	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
2,3,5,6-Tetrachlorophenol	ND	20.0	"							
2-Methylphenol	ND	10.0	"							
4-Methylphenol	ND	10.0	"							
Naphthalene	ND	10.0	"							
1,2-Dinitrobenzene	ND	20.0	"							
2-Nitroaniline	ND	30.0	"							
1,3-Dinitrobenzene	ND	20.0	"							
3-Nitroaniline	ND	30.0	"							
1,4-Dinitrobenzene	ND	20.0	"							
4-Nitroaniline	ND	30.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	30.0	"							
1-Methylnaphthalene	ND	20.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
2,3,4,6-Tetrachlorophenol	ND	20.0	"							
Pentachlorophenol	ND	30.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Aniline	ND	20.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							
Surrogate: 2-Fluorophenol	52.3		"	100		52.3	10-100			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112805 - EPA 3510B

Blank (2112805-BLK1)

Prepared: 11/28/12 Analyzed: 12/01/12

Surrogate: Phenol-d6	38.0		ug/l	99.8		38.0	10-100			
Surrogate: Nitrobenzene-d5	85.9		"	100		85.9	30.7-131			
Surrogate: 2-Fluorobiphenyl	82.6		"	100		82.6	18.2-157			
Surrogate: 2,4,6-Tribromophenol	66.1		"	100		66.1	23.3-100			
Surrogate: Terphenyl-d14	79.5		"	98.6		80.6	18.7-150			

LCS (2112805-BS1)

Prepared: 11/28/12 Analyzed: 12/01/12

Acenaphthene	133	10.0	ug/l	200		66.3	49.9-101			
Acenaphthylene	74.6	10.0	"	100		74.6	59.5-100			
Anthracene	70.7	10.0	"	100		70.7	56-100			
Benzo (a) anthracene	68.3	10.0	"	100		68.3	17-139			
Benzo (b) fluoranthene	68.7	10.0	"	100		68.7	34.2-156			
Benzo (k) fluoranthene	77.3	10.0	"	100		77.3	10-212			
Benzo (g,h,i) perylene	70.0	10.0	"	100		70.0	20.9-168			
Benzo (a) pyrene	72.0	10.0	"	100		72.0	18.8-169			
4-Chloro-3-methylphenol	147	20.0	"	200		73.3	24.7-130			
2-Chlorophenol	154	10.0	"	200		77.1	47.4-106			
Chrysene	70.7	10.0	"	100		70.7	15.3-131			
Dibenz (a,h) anthracene	72.4	10.0	"	100		72.4	20-158			
1,4-Dichlorobenzene	76.6	10.0	"	100		76.6	41.4-110			
2,4-Dinitrotoluene	87.3	10.0	"	100		87.3	63.6-100			
Fluoranthene	71.2	10.0	"	100		71.2	61.1-100			
Fluorene	76.0	10.0	"	100		76.0	61.6-100			
Indeno (1,2,3-cd) pyrene	77.3	10.0	"	100		77.3	34.7-137			
Naphthalene	73.0	10.0	"	100		73.0	58.2-100			
4-Nitrophenol	57.9	30.0	"	200		29.0	10-100			
N-Nitrosodi-n-propylamine	85.4	10.0	"	99.6		85.8	10-169			
Pentachlorophenol	25.8	30.0	"	200		12.9	10-153			
Phenanthrene	72.9	10.0	"	100		72.9	58.7-100			
Phenol	67.6	10.0	"	200		33.8	10-122			
Pyrene	122	10.0	"	199		61.3	10-168			
1,2,4-Trichlorobenzene	79.1	10.0	"	99.2		79.8	43.5-111			
Surrogate: 2-Fluorophenol	61.1		"	100		61.1	10-100			
Surrogate: Phenol-d6	39.4		"	99.8		39.4	10-100			
Surrogate: Nitrobenzene-d5	87.2		"	100		87.2	30.7-131			
Surrogate: 2-Fluorobiphenyl	81.1		"	100		81.1	18.2-157			
Surrogate: 2,4,6-Tribromophenol	77.6		"	100		77.6	23.3-100			
Surrogate: Terphenyl-d14	71.8		"	98.6		72.8	18.7-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112805 - EPA 3510B

LCS Dup (2112805-BSD1)

Prepared: 11/28/12 Analyzed: 12/01/12

Acenaphthene	131	10.0	ug/l	200	65.3	49.9-101	1.64	20	
Acenaphthylene	74.8	10.0	"	100	74.8	59.5-100	0.268	20	
Anthracene	70.5	10.0	"	100	70.5	56-100	0.198	20	
Benzo (a) anthracene	66.8	10.0	"	100	66.8	17-139	2.28	20	
Benzo (b) fluoranthene	65.0	10.0	"	100	65.0	34.2-156	5.60	20	
Benzo (k) fluoranthene	73.0	10.0	"	100	73.0	10-212	5.72	20	
Benzo (g,h,i) perylene	62.6	10.0	"	100	62.6	20.9-168	11.3	20	
Benzo (a) pyrene	67.8	10.0	"	100	67.8	18.8-169	6.01	20	
4-Chloro-3-methylphenol	150	20.0	"	200	75.2	24.7-130	2.60	20	
2-Chlorophenol	155	10.0	"	200	77.6	47.4-106	0.621	20	
Chrysene	71.1	10.0	"	100	71.1	15.3-131	0.677	20	
Dibenz (a,h) anthracene	68.5	10.0	"	100	68.5	20-158	5.62	20	
1,4-Dichlorobenzene	76.9	10.0	"	100	76.9	41.4-110	0.391	20	
2,4-Dinitrotoluene	88.2	10.0	"	100	88.2	63.6-100	0.980	20	
Fluoranthene	70.0	10.0	"	100	70.0	61.1-100	1.76	20	
Fluorene	74.8	10.0	"	100	74.8	61.6-100	1.56	20	
Indeno (1,2,3-cd) pyrene	71.7	10.0	"	100	71.7	34.7-137	7.47	20	
Naphthalene	72.2	10.0	"	100	72.2	58.2-100	1.07	20	
4-Nitrophenol	37.1	30.0	"	200	18.6	10-100	43.8	20	
N-Nitrosodi-n-propylamine	88.6	10.0	"	99.6	88.9	10-169	3.63	20	
Pentachlorophenol	48.4	30.0	"	200	24.2	10-153	60.7	20	
Phenanthrene	72.0	10.0	"	100	72.0	58.7-100	1.24	20	
Phenol	67.9	10.0	"	200	33.9	10-122	0.443	20	
Pyrene	121	10.0	"	199	60.7	10-168	0.956	20	
1,2,4-Trichlorobenzene	79.8	10.0	"	99.2	80.4	43.5-111	0.806	20	
Surrogate: 2-Fluorophenol	60.6		"	100	60.6	10-100			
Surrogate: Phenol-d6	39.3		"	99.8	39.4	10-100			
Surrogate: Nitrobenzene-d5	88.3		"	100	88.3	30.7-131			
Surrogate: 2-Fluorobiphenyl	79.1		"	100	79.1	18.2-157			
Surrogate: 2,4,6-Tribromophenol	74.9		"	100	74.9	23.3-100			
Surrogate: Terphenyl-d14	72.0		"	98.6	73.0	18.7-150			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112805 - EPA 3510B

Matrix Spike (2112805-MS1)

Source: R211168-01

Prepared: 11/28/12

Analyzed: 12/02/12

Acenaphthene	128	10.0	ug/l	200	ND	63.8	37.6-100			
Acenaphthylene	73.3	10.0	"	100	ND	73.3	33.1-108			
Anthracene	70.7	10.0	"	100	0.440	70.2	10.8-133			
Benzo (a) anthracene	68.2	10.0	"	100	0.240	67.9	21.3-102			
Benzo (b) fluoranthene	65.4	10.0	"	100	ND	65.4	33.2-117			
Benzo (k) fluoranthene	76.2	10.0	"	100	ND	76.2	10-161			
Benzo (g,h,i) perylene	68.3	10.0	"	100	ND	68.3	6.78-130			
Benzo (a) pyrene	70.6	10.0	"	100	ND	70.6	22.9-123			
4-Chloro-3-methylphenol	148	20.0	"	200	ND	73.8	10-132			
2-Chlorophenol	148	10.0	"	200	ND	74.2	53.8-82.4			
Chrysene	68.9	10.0	"	100	0.260	68.6	21.2-100			
Dibenz (a,h) anthracene	71.6	10.0	"	100	ND	71.6	13.1-122			
1,4-Dichlorobenzene	76.3	10.0	"	100	ND	76.3	24.4-100			
2,4-Dinitrotoluene	84.2	10.0	"	100	ND	84.2	36.7-106			
Fluoranthene	80.2	10.0	"	100	13.4	66.8	10-164			
Fluorene	74.1	10.0	"	100	ND	74.1	15-106			
Indeno (1,2,3-cd) pyrene	74.2	10.0	"	100	ND	74.2	18.5-113			
Naphthalene	71.6	10.0	"	100	ND	71.6	29.3-102			
4-Nitrophenol	63.4	30.0	"	200	ND	31.7	10-100			
N-Nitrosodi-n-propylamine	86.6	10.0	"	99.6	ND	86.9	36.3-104			
Pentachlorophenol	120	30.0	"	200	ND	59.9	10-101			
Phenanthrene	71.1	10.0	"	100	0.460	70.7	25.1-118			
Phenol	58.9	10.0	"	200	ND	29.4	10-100			
Pyrene	129	10.0	"	199	8.40	60.8	10-120			
1,2,4-Trichlorobenzene	77.4	10.0	"	99.2	ND	78.0	29.7-102			
Surrogate: 2-Fluorophenol	48.8		"	100		48.8	10-100			
Surrogate: Phenol-d6	34.1		"	99.8		34.2	10-100			
Surrogate: Nitrobenzene-d5	85.0		"	100		85.0	30.7-131			
Surrogate: 2-Fluorobiphenyl	79.0		"	100		79.0	18.2-157			
Surrogate: 2,4,6-Tribromophenol	85.0		"	100		85.0	23.3-100			
Surrogate: Terphenyl-d14	77.1		"	98.6		78.2	18.7-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2112805 - EPA 3510B

Matrix Spike Dup (2112805-MSD1)

Source: R211168-01

Prepared: 11/28/12

Analyzed: 12/02/12

Acenaphthene	129	10.0	ug/l	200	ND	64.7	37.6-100	1.42	30	
Acenaphthylene	73.9	10.0	"	100	ND	73.9	33.1-108	0.761	30	
Anthracene	73.0	10.0	"	100	0.440	72.5	10.8-133	3.20	30	
Benzo (a) anthracene	71.4	10.0	"	100	0.240	71.1	21.3-102	4.56	30	
Benzo (b) fluoranthene	69.9	10.0	"	100	ND	69.9	33.2-117	6.71	30	
Benzo (k) fluoranthene	70.6	10.0	"	100	ND	70.6	10-161	7.63	30	
Benzo (g,h,i) perylene	59.1	10.0	"	100	ND	59.1	6.78-130	14.4	30	
Benzo (a) pyrene	66.0	10.0	"	100	ND	66.0	22.9-123	6.70	30	
4-Chloro-3-methylphenol	152	20.0	"	200	ND	76.1	10-132	3.05	30	
2-Chlorophenol	155	10.0	"	200	ND	77.4	53.8-82.4	4.20	30	
Chrysene	72.7	10.0	"	100	0.260	72.4	21.2-100	5.34	30	
Dibenz (a,h) anthracene	62.4	10.0	"	100	ND	62.4	13.1-122	13.8	30	
1,4-Dichlorobenzene	78.9	10.0	"	100	ND	78.9	24.4-100	3.35	30	
2,4-Dinitrotoluene	87.4	10.0	"	100	ND	87.4	36.7-106	3.66	30	
Fluoranthene	80.4	10.0	"	100	13.4	67.0	10-164	0.299	30	
Fluorene	75.4	10.0	"	100	ND	75.4	15-106	1.77	30	
Indeno (1,2,3-cd) pyrene	67.3	10.0	"	100	ND	67.3	18.5-113	9.70	30	
Naphthalene	73.3	10.0	"	100	ND	73.3	29.3-102	2.24	30	
4-Nitrophenol	66.9	30.0	"	200	ND	33.4	10-100	5.34	30	
N-Nitrosodi-n-propylamine	88.2	10.0	"	99.6	ND	88.6	36.3-104	1.83	31.8	
Pentachlorophenol	118	30.0	"	200	ND	58.8	10-101	1.95	30	
Phenanthrene	72.6	10.0	"	100	0.460	72.1	25.1-118	1.98	30	
Phenol	62.7	10.0	"	200	ND	31.4	10-100	6.28	30	
Pyrene	132	10.0	"	199	8.40	62.1	10-120	1.90	30	
1,2,4-Trichlorobenzene	81.4	10.0	"	99.2	ND	82.0	29.7-102	5.01	35.6	
Surrogate: 2-Fluorophenol	62.7		"	100		62.7	10-100			
Surrogate: Phenol-d6	45.2		"	99.8		45.3	10-100			
Surrogate: Nitrobenzene-d5	88.0		"	100		88.0	30.7-131			
Surrogate: 2-Fluorobiphenyl	79.9		"	100		79.9	18.2-157			
Surrogate: 2,4,6-Tribromophenol	88.0		"	100		88.0	23.3-100			
Surrogate: Terphenyl-d14	77.1		"	98.6		78.2	18.7-150			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112903 - EPA 5030 Soil MS

Blank (2112903-BLK1)

Prepared: 11/29/12 Analyzed: 12/03/12

Acenaphthene	ND	330	ug/kg
Acenaphthylene	ND	330	"
Anthracene	ND	330	"
Bis(2-ethylhexyl)adipate	ND	330	"
Benzo (a) anthracene	ND	330	"
Benzo (b) fluoranthene	ND	330	"
Benzo (k) fluoranthene	ND	330	"
Benzo (g,h,i) perylene	ND	330	"
Benzo (a) pyrene	ND	330	"
Benzyl alcohol	ND	330	"
Pyridine	ND	330	"
Bis(2-chloroethoxy)methane	ND	330	"
N-Nitrosodimethylamine	ND	330	"
Bis(2-chloroethyl)ether	ND	330	"
Bis(2-chloroisopropyl)ether	ND	330	"
Bis(2-ethylhexyl)phthalate	ND	330	"
4-Bromophenyl phenyl ether	ND	330	"
Butyl benzyl phthalate	ND	330	"
4-Chloroaniline	ND	330	"
4-Chloro-3-methylphenol	ND	330	"
2-Chloronaphthalene	ND	330	"
2-Chlorophenol	ND	330	"
4-Chlorophenyl phenyl ether	ND	330	"
Chrysene	ND	330	"
Dibenz (a,h) anthracene	ND	330	"
Dibenzofuran	ND	330	"
Di-n-butyl phthalate	ND	330	"
1,2-Dichlorobenzene	ND	330	"
1,3-Dichlorobenzene	ND	330	"
1,4-Dichlorobenzene	ND	330	"
2,4-Dichlorophenol	ND	330	"
Diethyl phthalate	ND	330	"
2,4-Dimethylphenol	ND	330	"
Carbazole	ND	330	"
Dimethyl phthalate	ND	330	"
4,6-Dinitro-2-methylphenol	ND	330	"
2,4-Dinitrophenol	ND	330	"
Azobenzene	ND	330	"

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112903 - EPA 5030 Soil MS

Blank (2112903-BLK1)

Prepared: 11/29/12 Analyzed: 12/03/12

2,4-Dinitrotoluene	ND	330	ug/kg							
2,6-Dinitrotoluene	ND	330	"							
Di-n-octyl phthalate	ND	330	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Hexachlorobenzene	ND	330	"							
Hexachlorobutadiene	ND	330	"							
Hexachlorocyclopentadiene	ND	330	"							
Hexachloroethane	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	330	"							
Isophorone	ND	330	"							
2-Methylnaphthalene-d10	ND	330	"							
1-Methylnaphthalene	ND	330	"							
2-Methylphenol	ND	330	"							
4-Methylphenol	ND	330	"							
Naphthalene	ND	330	"							
1,4-Dinitrobenzene	ND	330	"							
2-Nitroaniline	ND	330	"							
1,3-Dinitrobenzene	ND	330	"							
3-Nitroaniline	ND	330	"							
1,2-Dinitrobenzene	ND	330	"							
4-Nitroaniline	ND	330	"							
Nitrobenzene	ND	330	"							
2-Nitrophenol	ND	330	"							
4-Nitrophenol	ND	330	"							
2,3,4,6-Tetrachlorophenol	ND	330	"							
N-Nitrosodi-n-propylamine	ND	330	"							
2,3,5,6-Tetrachlorophenol	ND	330	"							
Pentachlorophenol	ND	330	"							
Phenanthrene	ND	330	"							
Phenol	ND	330	"							
Aniline	ND	330	"							
Pyrene	ND	330	"							
1,2,4-Trichlorobenzene	ND	330	"							
2,4,5-Trichlorophenol	ND	330	"							
2,4,6-Trichlorophenol	ND	330	"							
Surrogate: 2-Fluorophenol	1180		"	1670	70.7	30-150				
Surrogate: Phenol-d6	1540		"	1660	92.5	30-150				

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112903 - EPA 5030 Soil MS

Blank (2112903-BLK1)

Prepared: 11/29/12 Analyzed: 12/03/12

Surrogate: Nitrobenzene-d5	1520		ug/kg	1670		91.0	30-150			
Surrogate: 2-Fluorobiphenyl	1480		"	1670		88.6	30-150			
Surrogate: 2,4,6-Tribromophenol	1250		"	1670		75.1	30-150			
Surrogate: Terphenyl-d14	1630		"	1640		99.4	30-150			

LCS (2112903-BS1)

Prepared: 11/29/12 Analyzed: 12/03/12

Acenaphthene	2380	330	ug/kg	3330		71.4	45-139			
Acenaphthylene	1330	330	"	1670		79.7	68-113			
Anthracene	1270	330	"	1670		76.4	63-119			
Benzo (a) anthracene	1250	330	"	1670		74.9	18-181			
Benzo (b) fluoranthene	1670	330	"	1670		100	10-169			
Benzo (k) fluoranthene	1820	330	"	1670		109	10-184			
Benzo (g,h,i) perylene	1570	330	"	1670		94.2	10-176			
Benzo (a) pyrene	1790	330	"	1670		107	14-178			
4-Chloro-3-methylphenol	2780	330	"	3330		83.4	64-122			
2-Chlorophenol	2810	330	"	3330		84.4	64-121			
Chrysene	1330	330	"	1670		79.7	10-184			
Dibenz (a,h) anthracene	1850	330	"	1670		111	10-171			
1,4-Dichlorobenzene	1390	330	"	1670		83.5	64-118			
2,4-Dinitrotoluene	1570	330	"	1670		94.0	64-118			
Fluoranthene	1260	330	"	1670		75.8	58-127			
Fluorene	1350	330	"	1670		81.0	67-113			
Indeno (1,2,3-cd) pyrene	1930	330	"	1670		116	11-175			
Naphthalene	1300	330	"	1670		78.1	62-118			
4-Nitrophenol	2260	330	"	3330		68.0	29-112			
N-Nitrosodi-n-propylamine	1500	330	"	1660		90.3	75-112			
Pentachlorophenol	2420	330	"	3330		72.5	18-146			
Phenol	2540	330	"	3330		76.2	57-106			
Pyrene	2330	330	"	3310		70.4	22-174			
1,2,4-Trichlorobenzene	1420	330	"	1650		85.8	68-120			
Surrogate: 2-Fluorophenol	1450		"	1670		86.8	30-150			
Surrogate: Phenol-d6	1570		"	1660		94.5	30-150			
Surrogate: Nitrobenzene-d5	1540		"	1670		92.5	30-150			
Surrogate: 2-Fluorobiphenyl	1460		"	1670		87.9	30-150			
Surrogate: 2,4,6-Tribromophenol	1560		"	1670		93.6	30-150			
Surrogate: Terphenyl-d14	1380		"	1640		83.8	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112903 - EPA 5030 Soil MS

LCS Dup (2112903-BSD1)

Prepared: 11/29/12 Analyzed: 12/03/12

Acenaphthene	2400	330	ug/kg	3330		71.9	45-139	0.712	15	
Acenaphthylene	1360	330	"	1670		81.3	68-113	2.06	22	
Anthracene	1310	330	"	1670		78.5	63-119	2.74	14	
Benzo (a) anthracene	1240	330	"	1670		74.4	18-181	0.696	24	
Benzo (b) fluoranthene	2000	330	"	1670		120	10-169	17.8	22	
Benzo (k) fluoranthene	1910	330	"	1670		114	10-184	4.76	24	
Benzo (g,h,i) perylene	1610	330	"	1670		96.4	10-176	2.25	27	
Benzo (a) pyrene	1820	330	"	1670		109	14-178	1.99	18	
4-Chloro-3-methylphenol	2880	330	"	3330		86.3	64-122	3.44	14	
2-Chlorophenol	2870	330	"	3330		86.2	64-121	2.09	13	
Chrysene	1310	330	"	1670		78.4	10-184	1.64	23	
Dibenz (a,h) anthracene	1930	330	"	1670		116	10-171	4.55	19	
1,4-Dichlorobenzene	1420	330	"	1670		84.9	64-118	1.66	12	
2,4-Dinitrotoluene	1620	330	"	1670		97.4	64-118	3.59	33	
Fluoranthene	1290	330	"	1670		77.5	58-127	2.11	14	
Fluorene	1380	330	"	1670		82.9	67-113	2.27	16	
Indeno (1,2,3-cd) pyrene	2070	330	"	1670		124	11-175	7.31	23	
Naphthalene	1320	330	"	1670		79.2	62-118	1.45	28	
4-Nitrophenol	2300	330	"	3330		69.0	29-112	1.56	30	
N-Nitrosodi-n-propylamine	1510	330	"	1660		91.2	75-112	0.996	12	
Pentachlorophenol	2510	330	"	3330		75.3	18-146	3.79	29	
Phenol	2560	330	"	3330		77.0	57-106	1.05	15	
Pyrene	2220	330	"	3310		67.1	22-174	4.73	41	
1,2,4-Trichlorobenzene	1460	330	"	1650		88.5	68-120	3.17	13	
Surrogate: 2-Fluorophenol	1500		"	1670		89.7	30-150			
Surrogate: Phenol-d6	1580		"	1660		95.3	30-150			
Surrogate: Nitrobenzene-d5	1570		"	1670		94.0	30-150			
Surrogate: 2-Fluorobiphenyl	1500		"	1670		89.9	30-150			
Surrogate: 2,4,6-Tribromophenol	1590		"	1670		95.2	30-150			
Surrogate: Terphenyl-d14	1330		"	1640		80.9	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2112903 - EPA 5030 Soil MS

Matrix Spike (2112903-MS1)	Source: R211185-02			Prepared: 11/29/12	Analyzed: 12/03/12						
Acenaphthene	2570	330	ug/kg	3330	118	73.7	32-136				
Acenaphthylene	5800	3300	"	1670	1450	261	45-114				QM-01
Anthracene	2690	330	"	1670	397	138	38-121				QM-01
Benzo (a) anthracene	9720	3300	"	1670	4540	311	28-135				QM-01
Benzo (b) fluoranthene	13600	3300	"	1670	6130	449	10-161				QM-01
Benzo (k) fluoranthene	14400	3300	"	1670	7010	446	10-172				QM-01
Benzo (g,h,i) perylene	3270	3300	"	1670	2710	34.0	10-149				
Benzo (a) pyrene	9250	3300	"	1670	3710	333	11-148				QM-01
4-Chloro-3-methylphenol	2430	330	"	3330	ND	72.9	38-126				
2-Chlorophenol	2380	330	"	3330	ND	71.5	49-113				
Chrysene	11300	3300	"	1670	5910	323	10-142				QM-01
Dibenz (a,h) anthracene	2360	3300	"	1670	1480	52.7	10-129				
1,4-Dichlorobenzene	1150	330	"	1670	ND	69.1	46-113				
2,4-Dinitrotoluene	611	330	"	1670	54.3	33.4	19-131				
Fluoranthene	10900	3300	"	1670	1760	550	40-141				QM-01
Fluorene	5060	3300	"	1670	439	277	45-118				QM-01
Indeno (1,2,3-cd) pyrene	3730	3300	"	1670	4870	NR	10-150				QM-4X
Naphthalene	1410	330	"	1670	ND	84.4	51-111				
4-Nitrophenol	1640	330	"	3330	ND	49.3	21-110				
N-Nitrosodi-n-propylamine	1320	330	"	1660	ND	79.3	51-110				
Pentachlorophenol	2180	330	"	3330	0.00	65.3	10-142				
Phenol	2150	330	"	3330	ND	64.6	41-104				
Pyrene	19400	3300	"	3310	7630	355	10-150				QM-01
1,2,4-Trichlorobenzene	1220	330	"	1650	ND	73.6	49-115				
Surrogate: 2-Fluorophenol	1280		"	1670		76.9	30-150				
Surrogate: Phenol-d6	1300		"	1660		78.3	30-150				
Surrogate: Nitrobenzene-d5	1240		"	1670		74.7	30-150				
Surrogate: 2-Fluorobiphenyl	1240		"	1670		74.1	30-150				
Surrogate: 2,4,6-Tribromophenol	1570		"	1670		94.5	30-150				
Surrogate: Terphenyl-d14	1810		"	1640		110	30-150				

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/04/12 09:18

Notes and Definitions

- S-08 The surrogate recovery was outside acceptance limits for this analyte indicating a potential high bias.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 11, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 11/29/12 17:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-EX2-112912	R211210-01	Soil	11/29/12 09:55	11/29/12 17:21
COB-EX3-112912	R211210-02	Soil	11/29/12 10:30	11/29/12 17:21
COB-EX4-112912	R211210-03	Soil	11/29/12 13:50	11/29/12 17:21
COB-FILL6400-112912	R211210-04	Soil	11/29/12 15:10	11/29/12 17:21
COB-FILL95-112912	R211210-05	Soil	11/29/12 15:15	11/29/12 17:21
COB-MW-7@10 - 11-112912	R211210-06	Soil	11/29/12 09:50	11/29/12 17:21
COB-MW-8@9 - 10-112912	R211210-07	Soil	11/29/12 13:47	11/29/12 17:21

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 17:07

Summit Scientific
 R211A10

5

741 Corporate Circle Suite 1 • Golden, Colorado 80401
 303-277-9310 • 303-274-9333 Fax

Client: 11th Environment, LP

Address: 1770 13th St W, Colfax Ave St 152

City/State/Zip: Golden, CO 80401

Phone: 303-212-8830 Fax:

Sampler Name: S. Colfax Ave

Project Manager: Craig Lugowski

E-Mail: clugowski@usaenviro.com

Project Name: 1770 13th St

Project Number: 5047

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:	Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Container Serial #	Other (Specify)			
C01-EV2-12912	11/29/12	0755	2			X								
C02-FX3-12912		1030												
C03-FX4-12912		1350												
C04-FILL-12912		1510												1524 HAT
C05-FILL-12912		1515												1544 HAT
C06-FX1-12912		0850												
C07-AV-720-12912	11/29/12	0851	2			X								
C08-AV-910-12912	11/29/12	1347	2			X								

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/29/12 17:07</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/29/12 17:07</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Notes:
 60m FILL (C04)
 FILL (C05) GR 24 HAT
 Also from EX3 for TTH - CRO + TTH - OMS

Turn Around Time (Check):
 72 Hours
 Same Day
 24 Hours
 48 Hours

Sample Integrity:
 Temperature Used Receipt: 15
 Inadeq: Yes No

www.62scientific.com



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-EX2-112912
R211210-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 09:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	1300	500	"	100	"	"	11/30/12	"	
tert-Butylbenzene	ND	5.0	"	1	"	"	11/30/12	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	

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17301 W Colfax Ave, Suite 152
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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-EX2-112912
R211210-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	15	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	5000	500	"	100	"	"	11/30/12	"
Hexachlorobutadiene	ND	5.0	"	1	"	"	11/30/12	"
Isopropylbenzene	2000	500	"	100	"	"	11/30/12	"
p-Isopropyltoluene	2100	1000	"	"	"	"	"	"
Methylene Chloride	ND	15	"	1	"	"	11/30/12	"
Naphthalene	210000	1000	"	100	"	"	11/30/12	"
n-Propylbenzene	2200	500	"	"	"	"	"	"
Styrene	ND	10	"	1	"	"	11/30/12	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2000	500	"	100	"	"	11/30/12	"
1,2,4-Trimethylbenzene	10000	500	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	1	"	"	11/30/12	"
m,p-Xylene	1800	10	"	"	"	"	"	"
o-Xylene	5200	500	"	100	"	"	11/30/12	"
Gasoline Range Hydrocarbons	1800000	50000	"	"	"	"	"	"

Date Sampled: 11/29/12 09:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	30-150		"	"	11/30/12	"	

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COB-EX2-112912
R211210-01 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	102 %	30-150	2112916	11/29/12	11/30/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	109 %	30-150	"	"	11/30/12	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 09:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	51000	33000	ug/kg	100	2120311	12/01/12	12/02/12	EPA 8270D	R-01
Acenaphthylene	2400	3300	"	10	"	"	"	"	R-01, J
Anthracene	20000	3300	"	"	"	"	"	"	R-01
Benzo (a) anthracene	9300	3300	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	3800	3300	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	6400	3300	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	1600	3300	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	8700	3300	"	"	"	"	"	"	R-01
Chrysene	8800	3300	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	270	3300	"	"	"	"	"	"	R-01, J
Fluoranthene	25000	3300	"	"	"	"	"	"	R-01
Fluorene	25000	3300	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	2100	3300	"	"	"	"	"	"	R-01, J
Naphthalene	140000	33000	"	100	"	"	"	"	R-01
Phenanthrene	64000	33000	"	"	"	"	"	"	R-01
Pyrene	ND	3300	"	10	"	"	"	"	R-01

Date Sampled: 11/29/12 09:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5	104 %	-13.6-167			"	"	"	"	R-01
Surrogate: 2-Fluorobiphenyl	92.8 %	-7.09-147			"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol	64.2 %	-42.1-143			"	"	"	"	R-01
Surrogate: Terphenyl-d14	112 %	-19.4-142			"	"	"	"	R-01

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COB-EX3-112912
R211210-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	4900	50	mg/kg	1	2112917	11/29/12	12/03/12	8015 Full Carbon Chain	

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	360	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	

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COB-EX3-112912
R211210-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	5.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	15	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	3000	500	"	100	"	"	11/30/12	"
Hexachlorobutadiene	ND	5.0	"	1	"	"	11/30/12	"
Isopropylbenzene	740	5.0	"	"	"	"	"	"
p-Isopropyltoluene	410	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	130000	1000	"	100	"	"	"	"
n-Propylbenzene	820	5.0	"	1	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	20	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"

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COB-EX3-112912
R211210-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trichlorofluoromethane	ND	5.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	840	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	6200	500	"	100	"	"	11/30/12	"	
Vinyl chloride	ND	5.0	"	1	"	"	11/30/12	"	
m,p-Xylene	1700	10	"	"	"	"	"	"	
o-Xylene	3200	500	"	100	"	"	11/30/12	"	
Gasoline Range Hydrocarbons	1400000	50000	"	"	"	"	11/30/12	"	

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	30-150		"	"	11/30/12	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	26000	3300	ug/kg	10	2120311	12/01/12	12/02/12	EPA 8270D	R-01
Acenaphthylene	1400	3300	"	"	"	"	"	"	R-01, J
Anthracene	9600	3300	"	"	"	"	"	"	R-01
Benzo (a) anthracene	5400	3300	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	2800	3300	"	"	"	"	"	"	R-01, J
Benzo (k) fluoranthene	3800	3300	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	770	3300	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	4800	3300	"	"	"	"	"	"	R-01
Chrysene	4800	3300	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	570	3300	"	"	"	"	"	"	R-01, J
Fluoranthene	13000	3300	"	"	"	"	"	"	R-01
Fluorene	15000	3300	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	1000	3300	"	"	"	"	"	"	R-01, J
Naphthalene	67000	33000	"	100	"	"	"	"	R-01
Phenanthrene	39000	33000	"	"	"	"	"	"	R-01
Pyrene	ND	3300	"	10	"	"	"	"	R-01

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COB-EX3-112912
R211210-02 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		83.0 %	-13.6-167		2120311	12/01/12	12/02/12	EPA 8270D	R-01
Surrogate: 2-Fluorobiphenyl		83.0 %	-7.09-147		"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol		33.2 %	-42.1-143		"	"	"	"	R-01
Surrogate: Terphenyl-dl4		86.6 %	-19.4-142		"	"	"	"	R-01

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12/11/12 17:07

COB-EX4-112912
R211210-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	

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COB-EX4-112912
R211210-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	15	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	ND	10	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/29/12 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	30-150		"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-EX4-112912
R211210-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	101 %	30-150	2112916	11/29/12	11/30/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	96.4 %	30-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 13:50

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	100	330	ug/kg	1	2120311	12/01/12	12/02/12	EPA 8270D	J
Acenaphthylene	21	330	"	"	"	"	"	"	J
Anthracene	180	330	"	"	"	"	"	"	J
Benzo (a) anthracene	14	330	"	"	"	"	"	"	J
Benzo (b) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Chrysene	14	330	"	"	"	"	"	"	J
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Fluoranthene	170	330	"	"	"	"	"	"	J
Fluorene	120	330	"	"	"	"	"	"	J
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Naphthalene	21	330	"	"	"	"	"	"	J
Phenanthrene	570	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	

Date Sampled: 11/29/12 13:50

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5	78.6 %	-13.6-167			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	78.5 %	-7.09-147			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	53.7 %	-42.1-143			"	"	"	"	
Surrogate: Terphenyl-d14	115 %	-19.4-142			"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-FILL6400-112912
R211210-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 15:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/29/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
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COB-FILL6400-112912
R211210-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloropropane	ND	5.0	ug/kg	1	2112916	11/29/12	11/29/12	EPA 8260B
Methyl tert-butyl ether	ND	15	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropane	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	ND	10	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/29/12 15:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	30-150		"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-FILL6400-112912
R211210-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	100 %	30-150	2112916	11/29/12	11/29/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	96.7 %	30-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 15:10

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	330	ug/kg	1	2120311	12/01/12	12/02/12	EPA 8270D	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Benzo (a) anthracene	6.0	330	"	"	"	"	"	"	J
Benzo (b) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	
Fluorene	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	

Date Sampled: 11/29/12 15:10

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5	82.1 %	-13.6-167			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	83.5 %	-7.09-147			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	60.0 %	-42.1-143			"	"	"	"	
Surrogate: Terphenyl-d14	118 %	-19.4-142			"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-FILL95-112912
R211210-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 15:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/29/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	

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12/11/12 17:07

COB-FILL95-112912
R211210-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methyl tert-butyl ether	ND	15	ug/kg	1	2112916	11/29/12	11/29/12	EPA 8260B	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	10	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	10	"	"	"	"	"	"	
Methylene Chloride	ND	15	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: 11/29/12 15:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	30-150		"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-FILL95-112912
R211210-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	98.6 %	30-150	2112916	11/29/12	11/29/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	98.3 %	30-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 15:15

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	330	ug/kg	1	2120311	12/01/12	12/02/12	EPA 8270D	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	
Fluorene	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	

Date Sampled: 11/29/12 15:15

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5	73.9 %	-13.6-167			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	77.4 %	-7.09-147			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	38.4 %	-42.1-143			"	"	"	"	
Surrogate: Terphenyl-d14	107 %	-19.4-142			"	"	"	"	

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-MW-7@10 - 11-112912
R211210-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-MW-7@10 - 11-112912
R211210-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	15	ug/kg	1	2112916	11/29/12	11/30/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	ND	10	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"
o-Xylene	ND	5.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/29/12 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	30-150		"	"	"	"	

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-MW-7@10 - 11-112912
R211210-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	99.8 %	30-150	2112916	11/29/12	11/30/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	94.3 %	30-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	330	ug/kg	1	2120311	12/01/12	12/02/12	EPA 8270D	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	7.7	330	"	"	"	"	"	"	J
Benzo (a) anthracene	8.7	330	"	"	"	"	"	"	J
Benzo (b) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Chrysene	9.0	330	"	"	"	"	"	"	J
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Fluoranthene	16	330	"	"	"	"	"	"	J
Fluorene	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
Phenanthrene	26	330	"	"	"	"	"	"	J
Pyrene	ND	330	"	"	"	"	"	"	

Date Sampled: 11/29/12 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5	80.2 %	-13.6-167			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	80.1 %	-7.09-147			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	67.3 %	-42.1-143			"	"	"	"	
Surrogate: Terphenyl-dl4	137 %	-19.4-142			"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-MW-8@9 - 10-112912
R211210-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/29/12 13:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	51	2.0	ug/kg	1	2112916	11/29/12	12/03/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
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COB-MW-8@9 - 10-112912
R211210-07 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Methyl tert-butyl ether	ND	15	ug/kg	1	2112916	11/29/12	12/03/12	EPA 8260B
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	230	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	140	5.0	"	"	"	"	"	"
p-Isopropyltoluene	240	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	210000	1000	"	100	"	"	"	"
n-Propylbenzene	60	5.0	"	1	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	33	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	170	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	740	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
m,p-Xylene	260	10	"	"	"	"	"	"
o-Xylene	420	5.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	260000	50000	"	100	"	"	"	"

Date Sampled: 11/29/12 13:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %		30-150	"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

COB-MW-8@9 - 10-112912
R211210-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	104 %	30-150	2112916	11/29/12	12/03/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	124 %	30-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/29/12 13:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	130000	13000	ug/kg	10	2120311	12/01/12	12/02/12	EPA 8270D	R-01
Acenaphthylene	49000	13000	"	"	"	"	"	"	R-01
Anthracene	68000	13000	"	"	"	"	"	"	R-01
Benzo (a) anthracene	49000	13000	"	"	"	"	"	"	R-01
Benzo (b) fluoranthene	77000	13000	"	"	"	"	"	"	R-01
Benzo (k) fluoranthene	75000	13000	"	"	"	"	"	"	R-01
Benzo (g,h,i) perylene	9100	13000	"	"	"	"	"	"	R-01, J
Benzo (a) pyrene	53000	13000	"	"	"	"	"	"	R-01
Chrysene	45000	13000	"	"	"	"	"	"	R-01
Dibenz (a,h) anthracene	1000	13000	"	"	"	"	"	"	R-01, J
Fluoranthene	90000	13000	"	"	"	"	"	"	R-01
Fluorene	110000	13000	"	"	"	"	"	"	R-01
Indeno (1,2,3-cd) pyrene	10000	13000	"	"	"	"	"	"	R-01, J
Naphthalene	230000	13000	"	"	"	"	"	"	R-01
Phenanthrene	250000	13000	"	"	"	"	"	"	R-01

Date Sampled: 11/29/12 13:47

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5	101 %	-13.6-167			"	"	"	"	R-01
Surrogate: 2-Fluorobiphenyl	100 %	-7.09-147			"	"	"	"	R-01
Surrogate: 2,4,6-Tribromophenol	%	-42.1-143			"	"	"	"	R-01, S-06
Surrogate: Terphenyl-dl4	140 %	-19.4-142			"	"	"	"	R-01

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 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 17:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112917 - EPA 3550A

Blank (2112917-BLK1)		Prepared: 11/29/12 Analyzed: 11/30/12								
C10-C28 (DRO)	ND	50	mg/kg							
LCS (2112917-BS1)		Prepared: 11/29/12 Analyzed: 11/30/12								
C10-C28 (DRO)	582	50	mg/kg	501		116	73-134			
LCS Dup (2112917-BSD1)		Prepared: 11/29/12 Analyzed: 11/30/12								
C10-C28 (DRO)	623	50	mg/kg	501		124	73-134	6.81	11	
Matrix Spike (2112917-MS1)		Source: R211212-01			Prepared: 11/29/12 Analyzed: 11/30/12					
C10-C28 (DRO)	598	50	mg/kg	479	37.1	117	50-148			
Matrix Spike Dup (2112917-MSD1)		Source: R211212-01			Prepared: 11/29/12 Analyzed: 11/30/12					
C10-C28 (DRO)	599	50	mg/kg	488	37.1	115	50-148	0.165	13	

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Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Blank (2112916-BLK1)

Prepared & Analyzed: 11/29/12

Benzene	ND	2.0	ug/kg
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	10	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	15	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Chlorodibromomethane	ND	10	"
1,2-Dibromo-3-chloropropane	ND	15	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Tert-amyl methyl ether	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane (EDC)	ND	5.0	"
Tert-butyl alcohol	ND	20	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
Ethyl tert-butyl ether	ND	10	"
Di-isopropyl ether	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
Methyl tert-butyl ether	ND	15	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	10	"
1,1-Dichloropropene	ND	5.0	"

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12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Blank (2112916-BLK1)

Prepared & Analyzed: 11/29/12

cis-1,3-Dichloropropene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	10	"							
Methylene Chloride	ND	15	"							
Naphthalene	ND	10	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	10	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	44.2		"	39.7		111	30-150			
Surrogate: Toluene-d8	40.5		"	40.0		101	30-150			
Surrogate: 4-Bromofluorobenzene	38.9		"	40.0		97.4	30-150			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

LCS (2112916-BS1)

Prepared & Analyzed: 11/29/12

Benzene	153	2.0	ug/kg	150		102	58-130			
Bromobenzene	143	5.0	"	150		95.3	87-115			
Bromochloromethane	154	5.0	"	150		103	82-122			
Bromodichloromethane	155	5.0	"	150		103	84-119			
Bromoform	123	5.0	"	150		81.9	76-119			
Bromomethane	137	10	"	150		91.5	39-152			
n-Butylbenzene	147	5.0	"	150		98.0	70-131			
sec-Butylbenzene	140	5.0	"	150		93.3	74-124			
tert-Butylbenzene	140	5.0	"	150		93.6	77-121			
Carbon tetrachloride	149	5.0	"	150		99.1	66-127			
Chlorobenzene	146	5.0	"	150		97.3	82-120			
Chloroethane	147	5.0	"	150		97.9	63-126			
Chloroform	151	5.0	"	150		101	82-120			
Chloromethane	139	15	"	150		92.9	57-133			
2-Chlorotoluene	141	5.0	"	150		93.9	82-117			
4-Chlorotoluene	138	5.0	"	150		92.1	81-119			
Chlorodibromomethane	134	10	"	150		89.5	82-124			
1,2-Dibromo-3-chloropropane	149	15	"	150		99.0	62-128			
1,2-Dibromoethane (EDB)	153	5.0	"	150		102	86-122			
Dibromomethane	156	5.0	"	150		104	83-124			
1,2-Dichlorobenzene	150	5.0	"	150		100	84-120			
1,3-Dichlorobenzene	147	5.0	"	150		97.8	81-118			
1,4-Dichlorobenzene	148	5.0	"	150		99.0	80-118			
Dichlorodifluoromethane	137	5.0	"	150		91.0	25-141			
Tert-amyl methyl ether	145	5.0	"	149		97.4	50-147			
1,1-Dichloroethane	148	5.0	"	150		98.7	78-120			
1,2-Dichloroethane (EDC)	163	5.0	"	150		108	81-125			
Tert-butyl alcohol	744	20	"	750		99.2	64-127			
1,1-Dichloroethene	145	5.0	"	150		96.7	71-122			
cis-1,2-Dichloroethene	153	5.0	"	150		102	84-121			
Ethyl tert-butyl ether	149	10	"	150		99.1	80-122			
Di-isopropyl ether	149	5.0	"	150		99.6	78-120			
trans-1,2-Dichloroethene	150	5.0	"	150		99.9	77-125			
Methyl tert-butyl ether	153	15	"	150		102	77-124			
1,2-Dichloropropane	154	5.0	"	150		103	88-114			
1,3-Dichloropropane	151	5.0	"	150		100	86-122			
2,2-Dichloropropane	140	10	"	150		93.1	32-150			
1,1-Dichloropropene	153	5.0	"	150		102	71-123			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

LCS (2112916-BS1)

Prepared & Analyzed: 11/29/12

cis-1,3-Dichloropropene	154	5.0	ug/kg	150		102	74-125			
trans-1,3-Dichloropropene	141	5.0	"	150		94.0	72-126			
Ethylbenzene	146	5.0	"	150		97.0	74-139			
Hexachlorobutadiene	155	5.0	"	150		104	56-144			
Isopropylbenzene	140	5.0	"	150		93.6	72-124			
p-Isopropyltoluene	144	10	"	150		96.2	72-123			
Methylene Chloride	135	15	"	150		89.9	10-183			
Naphthalene	187	10	"	150		124	66-138			
n-Propylbenzene	139	5.0	"	150		92.6	76-121			
Styrene	144	10	"	150		96.2	76-133			
1,1,2,2-Tetrachloroethane	148	5.0	"	150		98.9	60-137			
1,1,1,2-Tetrachloroethane	146	5.0	"	150		97.3	86-121			
Tetrachloroethene	146	5.0	"	150		97.4	69-131			
Toluene	144	5.0	"	150		96.3	61-134			
1,2,3-Trichlorobenzene	193	5.0	"	150		129	63-142			
1,2,4-Trichlorobenzene	169	5.0	"	150		113	63-141			
1,1,2-Trichloroethane	160	5.0	"	150		107	75-136			
1,1,1-Trichloroethane	148	5.0	"	150		98.3	71-126			
Trichloroethene	151	5.0	"	150		101	86-118			
Trichlorofluoromethane	153	5.0	"	150		102	62-128			
1,2,3-Trichloropropane	153	10	"	150		102	80-118			
1,3,5-Trimethylbenzene	139	5.0	"	150		92.6	72-121			
1,2,4-Trimethylbenzene	139	5.0	"	150		92.8	78-126			
Vinyl chloride	154	5.0	"	150		103	63-134			
m,p-Xylene	282	10	"	300		94.2	73-137			
o-Xylene	141	5.0	"	150		94.2	73-141			
Surrogate: 1,2-Dichloroethane-d4	43.6		"	39.7		110	30-150			
Surrogate: Toluene-d8	40.4		"	40.0		101	30-150			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.7	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

LCS Dup (2112916-BSD1)

Prepared & Analyzed: 11/29/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	145	2.0	ug/kg	150		97.0	58-130	4.83	13	
Bromobenzene	145	5.0	"	150		96.3	87-115	1.06	10	
Bromochloromethane	148	5.0	"	150		98.7	82-122	4.24	15	
Bromodichloromethane	146	5.0	"	150		97.5	84-119	5.68	10	
Bromoform	121	5.0	"	150		80.5	76-119	1.75	12	
Bromomethane	138	10	"	150		92.2	39-152	0.697	21	
n-Butylbenzene	152	5.0	"	150		101	70-131	3.27	11	
sec-Butylbenzene	140	5.0	"	150		93.2	74-124	0.129	10	
tert-Butylbenzene	143	5.0	"	150		95.1	77-121	1.57	10	
Carbon tetrachloride	144	5.0	"	150		96.1	66-127	3.07	14	
Chlorobenzene	146	5.0	"	150		97.4	82-120	0.123	10	
Chloroethane	139	5.0	"	150		92.9	63-126	5.16	16	
Chloroform	145	5.0	"	150		96.4	82-120	4.29	15	
Chloromethane	138	15	"	150		92.3	57-133	0.670	16	
2-Chlorotoluene	142	5.0	"	150		94.6	82-117	0.722	11	
4-Chlorotoluene	140	5.0	"	150		93.5	81-119	1.49	10	
Chlorodibromomethane	131	10	"	150		87.0	82-124	2.79	11	
1,2-Dibromo-3-chloropropane	148	15	"	150		98.5	62-128	0.486	19	
1,2-Dibromoethane (EDB)	152	5.0	"	150		101	86-122	0.552	10	
Dibromomethane	150	5.0	"	150		100	83-124	4.06	13	
1,2-Dichlorobenzene	156	5.0	"	150		104	84-120	3.81	10	
1,3-Dichlorobenzene	149	5.0	"	150		99.4	81-118	1.60	10	
1,4-Dichlorobenzene	145	5.0	"	150		96.7	80-118	2.29	10	
Dichlorodifluoromethane	126	5.0	"	150		83.8	25-141	8.26	39	
1,1-Dichloroethane	144	5.0	"	150		96.2	78-120	2.63	16	
Tert-amyl methyl ether	139	5.0	"	149		93.2	50-147	4.44	16	
1,2-Dichloroethane (EDC)	154	5.0	"	150		103	81-125	5.30	15	
Tert-butyl alcohol	703	20	"	750		93.7	64-127	5.75	19	
1,1-Dichloroethene	135	5.0	"	150		90.2	71-122	6.89	18	
Ethyl tert-butyl ether	142	10	"	150		94.7	80-122	4.49	16	
cis-1,2-Dichloroethene	147	5.0	"	150		97.9	84-121	4.16	18	
trans-1,2-Dichloroethene	141	5.0	"	150		94.1	77-125	5.96	16	
Di-isopropyl ether	144	5.0	"	150		96.0	78-120	3.77	18	
1,2-Dichloropropane	146	5.0	"	150		97.2	88-114	5.54	10	
Methyl tert-butyl ether	144	15	"	150		95.8	77-124	5.80	18	
1,3-Dichloropropane	148	5.0	"	150		98.7	86-122	1.79	10	
2,2-Dichloropropane	135	10	"	150		89.8	32-150	3.57	20	
1,1-Dichloropropene	141	5.0	"	150		93.8	71-123	8.06	16	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

LCS Dup (2112916-BSD1)

Prepared & Analyzed: 11/29/12

cis-1,3-Dichloropropene	143	5.0	ug/kg	150	95.4	74-125	7.04	18	
trans-1,3-Dichloropropene	133	5.0	"	150	88.9	72-126	5.55	22	
Ethylbenzene	144	5.0	"	150	96.0	74-139	1.06	12	
Hexachlorobutadiene	162	5.0	"	150	108	56-144	4.20	10	
Isopropylbenzene	138	5.0	"	150	92.0	72-124	1.72	12	
p-Isopropyltoluene	147	10	"	150	97.9	72-123	1.77	10	
Methylene Chloride	131	15	"	150	87.6	10-183	2.64	29	
Naphthalene	195	10	"	150	130	66-138	4.34	12	
n-Propylbenzene	141	5.0	"	150	94.0	76-121	1.48	10	
Styrene	144	10	"	150	95.8	76-133	0.417	13	
1,1,2,2-Tetrachloroethane	147	5.0	"	150	98.2	60-137	0.771	14	
1,1,1,2-Tetrachloroethane	145	5.0	"	150	96.8	86-121	0.515	10	
Tetrachloroethene	141	5.0	"	150	93.9	69-131	3.68	12	
Toluene	139	5.0	"	150	92.8	61-134	3.64	16	
1,2,3-Trichlorobenzene	205	5.0	"	150	137	63-142	6.16	10	
1,2,4-Trichlorobenzene	175	5.0	"	150	117	63-141	3.75	10	
1,1,2-Trichloroethane	147	5.0	"	150	98.1	75-136	8.72	25	
1,1,1-Trichloroethane	141	5.0	"	150	94.1	71-126	4.36	15	
Trichloroethene	147	5.0	"	150	98.0	86-118	2.60	12	
Trichlorofluoromethane	147	5.0	"	150	97.9	62-128	4.16	17	
1,2,3-Trichloropropane	152	10	"	150	102	80-118	0.177	13	
1,3,5-Trimethylbenzene	139	5.0	"	150	92.4	72-121	0.216	10	
1,2,4-Trimethylbenzene	141	5.0	"	150	94.1	78-126	1.35	10	
Vinyl chloride	146	5.0	"	150	97.7	63-134	4.88	15	
m,p-Xylene	279	10	"	300	93.0	73-137	1.20	14	
o-Xylene	141	5.0	"	150	93.9	73-141	0.361	12	
Surrogate: 1,2-Dichloroethane-d4	41.8		"	39.7	105	30-150			
Surrogate: Toluene-d8	39.8		"	40.0	99.6	30-150			
Surrogate: 4-Bromofluorobenzene	37.1		"	40.0	92.8	30-150			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Matrix Spike (2112916-MS1)	Source: R211210-04			Prepared & Analyzed: 11/29/12						
Benzene	126	2.0	ug/kg	149	ND	84.5	30-131			
Bromobenzene	114	5.0	"	149	ND	76.7	39-124			
Bromochloromethane	143	5.0	"	149	ND	95.7	62-121			
Bromodichloromethane	131	5.0	"	149	ND	88.1	51-120			
Bromoform	124	5.0	"	149	ND	83.2	52-125			
Bromomethane	124	10	"	149	ND	83.2	10-152			
n-Butylbenzene	92.4	5.0	"	149	ND	62.0	10-144			
sec-Butylbenzene	92.5	5.0	"	149	ND	62.0	10-140			
tert-Butylbenzene	99.3	5.0	"	149	ND	66.6	16-132			
Carbon tetrachloride	124	5.0	"	149	ND	83.2	46-125			
Chlorobenzene	120	5.0	"	149	ND	80.3	42-125			
Chloroethane	125	5.0	"	149	ND	83.9	46-125			
Chloroform	129	5.0	"	149	ND	86.8	57-118			
Chloromethane	126	15	"	149	ND	84.6	33-132			
2-Chlorotoluene	106	5.0	"	149	ND	71.2	30-125			
4-Chlorotoluene	105	5.0	"	149	ND	70.6	29-127			
Chlorodibromomethane	123	10	"	149	ND	82.5	54-124			
1,2-Dibromo-3-chloropropane	163	15	"	149	ND	109	10-175			
1,2-Dibromoethane (EDB)	153	5.0	"	149	ND	102	65-125			
Dibromomethane	153	5.0	"	149	ND	103	64-127			
1,2-Dichlorobenzene	120	5.0	"	149	ND	80.4	24-134			
1,3-Dichlorobenzene	110	5.0	"	149	ND	73.5	22-130			
1,4-Dichlorobenzene	111	5.0	"	149	ND	74.3	21-131			
Dichlorodifluoromethane	123	5.0	"	149	ND	82.7	47-117			
1,1-Dichloroethane	129	5.0	"	149	ND	86.3	55-119			
Tert-amyl methyl ether	144	5.0	"	148	ND	97.2	60-124			
1,2-Dichloroethane (EDC)	152	5.0	"	149	ND	102	65-124			
1,1-Dichloroethene	129	5.0	"	149	ND	86.6	42-145			
Tert-butyl alcohol	963	20	"	746	ND	129	64-131			
Ethyl tert-butyl ether	140	10	"	149	ND	93.6	60-119			
cis-1,2-Dichloroethene	133	5.0	"	149	ND	89.1	56-121			
trans-1,2-Dichloroethene	129	5.0	"	149	ND	86.7	52-126			
Di-isopropyl ether	136	5.0	"	149	ND	91.2	40-132			
1,2-Dichloropropane	130	5.0	"	149	ND	87.0	61-115			
Methyl tert-butyl ether	154	15	"	149	ND	103	64-124			
1,3-Dichloropropane	147	5.0	"	149	ND	98.7	66-123			
2,2-Dichloropropane	123	10	"	149	ND	82.2	35-127			
1,1-Dichloropropene	126	5.0	"	149	ND	84.4	52-119			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Matrix Spike (2112916-MS1)	Source: R211210-04			Prepared & Analyzed: 11/29/12						
cis-1,3-Dichloropropene	130	5.0	ug/kg	149	ND	87.5	47-122			
trans-1,3-Dichloropropene	129	5.0	"	149	ND	86.4	51-119			
Ethylbenzene	118	5.0	"	149	ND	78.9	22-153			
Hexachlorobutadiene	68.9	5.0	"	149	ND	46.2	10-149			
Isopropylbenzene	108	5.0	"	149	ND	72.2	18-135			
p-Isopropyltoluene	97.6	10	"	149	ND	65.5	12-132			
Methylene Chloride	121	15	"	149	ND	81.0	10-167			
Naphthalene	184	10	"	149	ND	123	10-158			
n-Propylbenzene	101	5.0	"	149	ND	67.5	15-134			
Styrene	118	10	"	149	ND	79.1	33-135			
1,1,2,2-Tetrachloroethane	127	5.0	"	149	ND	85.0	10-166			
1,1,1,2-Tetrachloroethane	125	5.0	"	149	ND	83.7	49-123			
Tetrachloroethene	116	5.0	"	149	ND	77.8	33-134			
Toluene	120	5.0	"	149	ND	80.6	30-134			
1,2,3-Trichlorobenzene	145	5.0	"	149	ND	97.4	10-155			
1,2,4-Trichlorobenzene	115	5.0	"	149	ND	77.4	10-152			
1,1,2-Trichloroethane	151	5.0	"	149	ND	101	46-139			
1,1,1-Trichloroethane	130	5.0	"	149	ND	86.9	51-124			
Trichloroethene	144	5.0	"	149	ND	96.7	16-187			
Trichlorofluoromethane	140	5.0	"	149	ND	93.6	53-125			
1,2,3-Trichloropropane	157	10	"	149	ND	106	69-118			
1,3,5-Trimethylbenzene	104	5.0	"	149	ND	69.4	20-128			
1,2,4-Trimethylbenzene	101	5.0	"	149	ND	68.0	17-142			
Vinyl chloride	135	5.0	"	149	ND	90.7	50-134			
m,p-Xylene	226	10	"	298	ND	75.7	10-159			
o-Xylene	114	5.0	"	149	ND	76.3	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.9</i>		<i>"</i>	<i>39.5</i>		<i>119</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.3</i>		<i>"</i>	<i>39.8</i>		<i>101</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>38.0</i>		<i>"</i>	<i>39.8</i>		<i>95.6</i>	<i>30-150</i>			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Matrix Spike Dup (2112916-MSD1)	Source: R211210-04			Prepared & Analyzed: 11/29/12						
Benzene	116	2.0	ug/kg	146	ND	79.6	30-131	8.21	34	
Bromobenzene	109	5.0	"	146	ND	74.6	39-124	4.99	21	
Bromochloromethane	134	5.0	"	146	ND	91.9	62-121	6.21	20	
Bromodichloromethane	122	5.0	"	146	ND	83.8	51-120	7.14	22	
Bromoform	121	5.0	"	146	ND	83.1	52-125	2.28	22	
Bromomethane	115	10	"	146	ND	78.6	10-152	7.90	90	
n-Butylbenzene	83.7	5.0	"	146	ND	57.4	10-144	9.87	52	
sec-Butylbenzene	82.0	5.0	"	146	ND	56.2	10-140	12.0	45	
tert-Butylbenzene	80.7	5.0	"	146	ND	55.3	16-132	20.6	33	
Carbon tetrachloride	112	5.0	"	146	ND	76.5	46-125	10.6	22	
Chlorobenzene	116	5.0	"	146	ND	79.5	42-125	3.21	18	
Chloroethane	115	5.0	"	146	ND	78.9	46-125	8.30	24	
Chloroform	121	5.0	"	146	ND	82.9	57-118	6.81	19	
Chloromethane	116	15	"	146	ND	79.7	33-132	8.18	18	
2-Chlorotoluene	96.5	5.0	"	146	ND	66.1	30-125	9.59	24	
4-Chlorotoluene	94.1	5.0	"	146	ND	64.5	29-127	11.1	24	
Chlorodibromomethane	118	10	"	146	ND	81.1	54-124	3.85	22	
1,2-Dibromo-3-chloropropane	150	15	"	146	ND	103	10-175	8.33	39	
1,2-Dibromoethane (EDB)	148	5.0	"	146	ND	101	65-125	3.40	22	
Dibromomethane	143	5.0	"	146	ND	98.2	64-127	6.80	19	
1,2-Dichlorobenzene	114	5.0	"	146	ND	78.3	24-134	4.81	26	
1,3-Dichlorobenzene	101	5.0	"	146	ND	69.1	22-130	8.36	27	
1,4-Dichlorobenzene	102	5.0	"	146	ND	69.8	21-131	8.35	25	
Dichlorodifluoromethane	107	5.0	"	146	ND	73.2	47-117	14.3	36	
1,1-Dichloroethane	118	5.0	"	146	ND	80.8	55-119	8.74	22	
Tert-amyl methyl ether	131	5.0	"	145	ND	90.7	60-124	9.07	40	
1,2-Dichloroethane (EDC)	143	5.0	"	146	ND	97.8	65-124	6.03	19	
1,1-Dichloroethene	113	5.0	"	146	ND	77.6	42-145	13.1	22	
Tert-butyl alcohol	887	20	"	730	ND	122	64-131	8.20	24	
Ethyl tert-butyl ether	128	10	"	146	ND	87.2	60-119	9.24	38	
cis-1,2-Dichloroethene	122	5.0	"	146	ND	83.9	56-121	8.10	21	
trans-1,2-Dichloroethene	116	5.0	"	146	ND	79.2	52-126	11.2	22	
Di-isopropyl ether	123	5.0	"	146	ND	84.2	40-132	10.2	108	
1,2-Dichloropropane	121	5.0	"	146	ND	82.9	61-115	7.01	17	
Methyl tert-butyl ether	145	15	"	146	ND	99.2	64-124	6.01	28	
1,3-Dichloropropane	141	5.0	"	146	ND	96.6	66-123	4.33	24	
2,2-Dichloropropane	108	10	"	146	ND	73.9	35-127	12.8	29	
1,1-Dichloropropene	117	5.0	"	146	ND	80.5	52-119	6.87	21	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2112916 - EPA 5030 Soil MS

Matrix Spike Dup (2112916-MSD1)	Source: R211210-04			Prepared & Analyzed: 11/29/12						
cis-1,3-Dichloropropene	126	5.0	ug/kg	146	ND	86.4	47-122	3.43	40	
trans-1,3-Dichloropropene	121	5.0	"	146	ND	83.2	51-119	5.96	52	
Ethylbenzene	111	5.0	"	146	ND	75.8	22-153	6.09	24	
Hexachlorobutadiene	57.2	5.0	"	146	ND	39.2	10-149	18.5	59	
Isopropylbenzene	102	5.0	"	146	ND	69.7	18-135	5.72	33	
p-Isopropyltoluene	87.3	10	"	146	ND	59.9	12-132	11.1	38	
Methylene Chloride	107	15	"	146	ND	73.4	10-167	12.0	102	
Naphthalene	178	10	"	146	ND	122	10-158	2.96	42	
n-Propylbenzene	90.8	5.0	"	146	ND	62.2	15-134	10.3	37	
Styrene	113	10	"	146	ND	77.7	33-135	4.00	22	
1,1,2,2-Tetrachloroethane	111	5.0	"	146	ND	76.4	10-166	12.8	45	
1,1,1,2-Tetrachloroethane	116	5.0	"	146	ND	79.5	49-123	7.31	21	
Tetrachloroethene	109	5.0	"	146	ND	74.7	33-134	6.17	26	
Toluene	110	5.0	"	146	ND	75.7	30-134	8.41	30	
1,2,3-Trichlorobenzene	137	5.0	"	146	ND	93.7	10-155	5.95	40	
1,2,4-Trichlorobenzene	111	5.0	"	146	ND	76.2	10-152	3.80	42	
1,1,2-Trichloroethane	145	5.0	"	146	ND	99.4	46-139	4.19	34	
1,1,1-Trichloroethane	114	5.0	"	146	ND	78.4	51-124	12.4	22	
Trichloroethene	132	5.0	"	146	ND	90.7	16-187	8.56	19	
Trichlorofluoromethane	122	5.0	"	146	ND	83.9	53-125	13.2	20	
1,2,3-Trichloropropane	148	10	"	146	ND	101	69-118	6.24	23	
1,3,5-Trimethylbenzene	93.6	5.0	"	146	ND	64.2	20-128	10.0	31	
1,2,4-Trimethylbenzene	92.1	5.0	"	146	ND	63.1	17-142	9.69	40	
Vinyl chloride	124	5.0	"	146	ND	84.7	50-134	8.98	22	
m,p-Xylene	215	10	"	292	ND	73.7	10-159	4.80	68	
o-Xylene	105	5.0	"	146	ND	72.3	31-151	7.60	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.0</i>		<i>"</i>	<i>38.6</i>		<i>122</i>	<i>30-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>39.3</i>		<i>"</i>	<i>38.9</i>		<i>101</i>	<i>30-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>39.0</i>		<i>"</i>	<i>38.9</i>		<i>100</i>	<i>30-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120311 - EPA 5030 Soil MS

Blank (2120311-BLK1)

Prepared: 12/01/12 Analyzed: 12/02/12

Acenaphthene	ND	330	ug/kg							
Acenaphthylene	ND	330	"							
Anthracene	ND	330	"							
Benzo (a) anthracene	ND	330	"							
Benzo (b) fluoranthene	ND	330	"							
Benzo (k) fluoranthene	ND	330	"							
Benzo (g,h,i) perylene	ND	330	"							
Benzo (a) pyrene	ND	330	"							
Chrysene	ND	330	"							
Dibenz (a,h) anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	330	"							
Naphthalene	ND	330	"							
Phenanthrene	ND	330	"							
Pyrene	ND	330	"							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1510</i>		<i>"</i>	<i>1670</i>	<i>90.3</i>	<i>-13.6-167</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1510</i>		<i>"</i>	<i>1670</i>	<i>90.7</i>	<i>-7.09-147</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1340</i>		<i>"</i>	<i>1670</i>	<i>80.2</i>	<i>-42.1-143</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>1620</i>		<i>"</i>	<i>1640</i>	<i>98.3</i>	<i>-19.4-142</i>				

LCS (2120311-BS1)

Prepared: 12/01/12 Analyzed: 12/02/12

Acenaphthene	2300	330	ug/kg	1670	138	45-139				
Acenaphthylene	1310	330	"	1670	78.4	68-113				
Anthracene	1250	330	"	1670	75.1	63-119				
Benzo (a) anthracene	1330	330	"	1670	79.9	18-181				
Benzo (b) fluoranthene	2130	330	"	1670	128	10-169				
Benzo (k) fluoranthene	2190	330	"	1670	132	10-184				
Benzo (g,h,i) perylene	1610	330	"	1670	96.3	10-176				
Benzo (a) pyrene	2010	330	"	1670	121	14-178				
Chrysene	1370	330	"	1670	82.4	10-184				
Dibenz (a,h) anthracene	1970	330	"	1670	118	10-171				
Fluoranthene	1240	330	"	1670	74.2	58-127				
Fluorene	1340	330	"	1670	80.4	67-113				
Indeno (1,2,3-cd) pyrene	2070	330	"	1670	124	11-175				
Naphthalene	1290	330	"	1670	77.2	62-118				
Phenanthrene	1260	330	"	1670	75.3	62-120				
<i>Surrogate: Nitrobenzene-d5</i>	<i>1480</i>		<i>"</i>	<i>1670</i>	<i>89.1</i>	<i>-13.6-167</i>				

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120311 - EPA 5030 Soil MS

LCS (2120311-BS1)

Prepared: 12/01/12 Analyzed: 12/02/12

Surrogate: 2-Fluorobiphenyl	1470		ug/kg	1670		88.2	-7.09-147		
Surrogate: 2,4,6-Tribromophenol	1540		"	1670		92.6	-42.1-143		
Surrogate: Terphenyl-dl4	1370		"	1640		83.4	-19.4-142		

LCS Dup (2120311-BSD1)

Prepared: 12/01/12 Analyzed: 12/03/12

Acenaphthene	2350	330	ug/kg	1670		141	45-139	2.18	15
Acenaphthylene	1330	330	"	1670		79.7	68-113	1.69	22
Anthracene	1280	330	"	1670		76.7	63-119	2.13	14
Benzo (a) anthracene	1220	330	"	1670		73.2	18-181	8.68	24
Benzo (b) fluoranthene	1960	330	"	1670		118	10-169	8.50	22
Benzo (k) fluoranthene	2150	330	"	1670		129	10-184	1.82	24
Benzo (g,h,i) perylene	1560	330	"	1670		93.3	10-176	3.16	27
Benzo (a) pyrene	1980	330	"	1670		119	14-178	1.84	18
Chrysene	1290	330	"	1670		77.2	10-184	6.49	23
Dibenz (a,h) anthracene	1870	330	"	1670		112	10-171	5.45	19
Fluoranthene	1220	330	"	1670		73.3	58-127	1.11	14
Fluorene	1360	330	"	1670		81.7	67-113	1.70	16
Indeno (1,2,3-cd) pyrene	1940	330	"	1670		116	11-175	6.35	23
Naphthalene	1300	330	"	1670		78.2	62-118	1.24	28
Phenanthrene	1320	330	"	1670		79.1	62-120	4.82	16
Surrogate: Nitrobenzene-d5	1490		"	1670		89.6	-13.6-167		
Surrogate: 2-Fluorobiphenyl	1360		"	1670		81.7	-7.09-147		
Surrogate: 2,4,6-Tribromophenol	1560		"	1670		93.4	-42.1-143		
Surrogate: Terphenyl-dl4	1280		"	1640		78.0	-19.4-142		

Matrix Spike (2120311-MS1)

Source: R211210-05

Prepared: 12/01/12 Analyzed: 12/02/12

Acenaphthene	2060	330	ug/kg	1670	ND	123	32-136		
Acenaphthylene	1160	330	"	1670	ND	69.6	45-114		
Anthracene	1120	330	"	1670	ND	67.2	38-121		
Benzo (a) anthracene	1410	330	"	1670	ND	84.8	28-135		
Benzo (b) fluoranthene	1560	330	"	1670	ND	93.6	10-161		
Benzo (k) fluoranthene	1720	330	"	1670	ND	103	10-172		
Benzo (g,h,i) perylene	1400	330	"	1670	ND	83.8	10-149		
Benzo (a) pyrene	1580	330	"	1670	ND	94.6	11-148		
Chrysene	1480	330	"	1670	ND	88.7	10-142		
Dibenz (a,h) anthracene	1540	330	"	1670	ND	92.7	10-129		
Fluoranthene	1150	330	"	1670	ND	68.9	40-141		
Fluorene	1180	330	"	1670	ND	70.9	45-118		

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/11/12 17:07

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120311 - EPA 5030 Soil MS

Matrix Spike (2120311-MS1)	Source: R211210-05			Prepared: 12/01/12		Analyzed: 12/02/12	
Indeno (1,2,3-cd) pyrene	1640	330	ug/kg	1670	ND	98.6	10-150
Naphthalene	1130	330	"	1670	ND	67.9	51-111
Phenanthrene	1130	330	"	1670	ND	68.0	39-135
<i>Surrogate: Nitrobenzene-d5</i>	<i>1240</i>		<i>"</i>	<i>1670</i>		<i>74.5</i>	<i>-13.6-167</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1290</i>		<i>"</i>	<i>1670</i>		<i>77.5</i>	<i>-7.09-147</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1200</i>		<i>"</i>	<i>1670</i>		<i>72.0</i>	<i>-42.1-143</i>
<i>Surrogate: Terphenyl-d14</i>	<i>1560</i>		<i>"</i>	<i>1640</i>		<i>94.9</i>	<i>-19.4-142</i>

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 17:07

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 11, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/12 08:27. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or similar initials, with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury For Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-MW1-113012	R212001-01	Water	11/30/12 15:25	12/03/12 08:27
COB-MW2-113012	R212001-02	Water	11/30/12 16:05	12/03/12 08:27
COB-MW4-113012	R212001-03	Water	11/30/12 16:45	12/03/12 08:27
COB-MW6-113012	R212001-04	Water	11/30/12 17:30	12/03/12 08:27
COB-TP-113012	R212001-05	Water	11/30/12 10:00	12/03/12 08:27

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW1-113012
R212001-01 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/30/12 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: 11/30/12 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		112 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/30/12 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW1-113012
R212001-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Compound	Result	Concentration	Unit	Sample	Date	Date	Method
1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120609	12/06/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW1-113012
R212001-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	ND	2.0	"	"	"	"	"	"
o-Xylene	ND	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/30/12 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.3 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/30/12 15:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	

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Project: 1770 13th St
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 Project Manager: Craig Lugowski

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 12/11/12 14:41

COB-MW1-113012
R212001-01 (Water)

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Semivolatile Organic Compounds by EPA Method 8270D

Pyrene ND 10.0 ug/l 1 2120507 12/05/12 12/06/12 EPA 8270D

Date Sampled: **11/30/12 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		89.8 %	30-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77.0 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		84.0 %	30-149		"	"	"	"	
Surrogate: Terphenyl-dl4		78.2 %	30-144		"	"	"	"	

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Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW2-113012
R212001-02 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/12 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: **11/30/12 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/12 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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COB-MW2-113012
R212001-02 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Compound	Result	Concentration	Unit	Sample	Method	Date	Date	Method
1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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Project Number: 5047
Project Manager: Craig Lugowski

Reported:
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COB-MW2-113012
R212001-02 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	ND	2.0	"	"	"	"	"	"
o-Xylene	ND	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/30/12 16:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/30/12 16:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	

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COB-MW2-113012
R212001-02 (Water)

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Semivolatile Organic Compounds by EPA Method 8270D

Pyrene ND 10.0 ug/l 1 2120507 12/05/12 12/06/12 EPA 8270D

Date Sampled: **11/30/12 16:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		84.8 %	30-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		73.7 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		75.4 %	30-149		"	"	"	"	
Surrogate: Terphenyl-dl4		73.9 %	30-144		"	"	"	"	

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Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW4-113012
R212001-03 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/12 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: **11/30/12 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/12 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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12/11/12 14:41

COB-MW4-113012
R212001-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Compound	Result	Concentration	Unit	Sample	Method	Date	Date	Method
1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	2.9	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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COB-MW4-113012
R212001-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	ND	2.0	"	"	"	"	"	"
o-Xylene	ND	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/30/12 16:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/30/12 16:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	

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 Project Manager: Craig Lugowski

Reported:
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COB-MW4-113012
R212001-03 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Pyrene ND 10.0 ug/l 1 2120507 12/05/12 12/06/12 EPA 8270D

Date Sampled: **11/30/12 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		83.1 %	30-138		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.2 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		69.2 %	30-149		"	"	"	"	
Surrogate: Terphenyl-d14		73.8 %	30-144		"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW6-113012
R212001-04 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/12 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: **11/30/12 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		107 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/12 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-MW6-113012
R212001-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	8.8	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	2.4	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	1.7	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	270	1.0	"	"	"	"	"	"
n-Propylbenzene	1.1	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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Reported:
12/11/12 14:41

COB-MW6-113012
R212001-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120609	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2.5	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	4.2	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	4.6	2.0	"	"	"	"	"	"
o-Xylene	5.3	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/30/12 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/30/12 17:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	52.0	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	63.8	10.0	"	"	"	"	"	"	
Anthracene	12.1	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	42.7	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	184	100	"	10	"	"	"	"	
Phenanthrene	63.8	10.0	"	1	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	

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Project: 1770 13th St
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COB-MW6-113012
R212001-04 (Water)

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Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **11/30/12 17:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		83.1 %	30-138		2120507	12/05/12	12/06/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		75.3 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		74.7 %	30-149		"	"	"	"	
Surrogate: Terphenyl-d14		75.4 %	30-144		"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

COB-TP-113012
R212001-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/30/12 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120609	12/06/12	12/10/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	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	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Reported:
12/11/12 14:41

COB-TP-113012
R212001-05 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,3-Dichloropropene	ND	1.0	ug/l	1	2120609	12/06/12	12/10/12	EPA 8260B
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	ND	2.0	"	"	"	"	"	"
o-Xylene	ND	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 11/30/12 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	49.7-150		"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
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Project Manager: Craig Lugowski

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12/11/12 14:41

COB-TP-113012
R212001-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	104 %	51-150	2120609	12/06/12	12/10/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	96.0 %	50.1-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 11/30/12 10:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	ND	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	

Date Sampled: 11/30/12 10:00

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5		86.7 %							
Surrogate: 2-Fluorobiphenyl		71.9 %							
Surrogate: 2,4,6-Tribromophenol		51.3 %							
Surrogate: Terphenyl-d14		79.0 %							

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 Project Manager: Craig Lugowski

Reported:
 12/11/12 14:41

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2120323 - EPA 3520B

Blank (2120323-BLK1)				Prepared & Analyzed: 12/03/12							
C10-C28 (DRO)	ND	5.00	mg/L								
LCS (2120323-BS1)				Prepared & Analyzed: 12/03/12							
C10-C28 (DRO)	90.4	5.00	mg/L	83.5	108	80-149					
LCS Dup (2120323-BSD1)				Prepared: 12/03/12 Analyzed: 12/04/12							
C10-C28 (DRO)	63.9	5.00	mg/L	50.1	128	80-149	34.3	14			
Matrix Spike (2120323-MS1)				Source: R212001-01		Prepared: 12/03/12 Analyzed: 12/04/12					
C10-C28 (DRO)	62.0	5.00	mg/L	50.1	2.55	119	80-120				
Matrix Spike Dup (2120323-MSD1)				Source: R212001-01		Prepared: 12/03/12 Analyzed: 12/04/12					
C10-C28 (DRO)	60.3	5.00	mg/L	50.1	2.55	115	80-120	2.67	20		

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2120609 - EPA 5030 Water MS

Blank (2120609-BLK1)

Prepared & Analyzed: 12/06/12

Benzene	ND	1.0	ug/l	
Bromobenzene	ND	1.0	"	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	2.0	"	
Bromoform	ND	1.0	"	
Bromomethane	ND	1.0	"	
n-Butylbenzene	ND	1.0	"	
sec-Butylbenzene	ND	1.0	"	
tert-Butylbenzene	ND	1.0	"	
Carbon tetrachloride	ND	1.0	"	
Chlorobenzene	ND	1.0	"	
Chloroethane	ND	1.0	"	
Chloroform	ND	5.0	"	
Chloromethane	ND	1.0	"	
Chlorodibromomethane	ND	1.0	"	
2-Chlorotoluene	ND	1.0	"	
4-Chlorotoluene	ND	1.0	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	
1,2-Dibromoethane (EDB)	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	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	
1,1-Dichloroethene	ND	1.0	"	
cis-1,2-Dichloroethene	ND	1.0	"	
trans-1,2-Dichloroethene	ND	1.0	"	
1,2-Dichloropropane	ND	1.0	"	
1,3-Dichloropropane	ND	1.0	"	
2,2-Dichloropropane	ND	1.0	"	
1,1-Dichloropropene	ND	1.0	"	
cis-1,3-Dichloropropene	ND	1.0	"	
trans-1,3-Dichloropropene	ND	1.0	"	
Ethylbenzene	ND	1.0	"	
Hexachlorobutadiene	ND	1.0	"	
Tert-amyl methyl ether	ND	1.0	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2120609 - EPA 5030 Water MS

Blank (2120609-BLK1)

Prepared & Analyzed: 12/06/12

Ethyl tert-butyl ether	ND	10	ug/l							
Tert-butyl alcohol	ND	20	"							
Isopropylbenzene	ND	1.0	"							
Di-isopropyl ether	ND	5.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethane	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.2	108	49.7-150				
Surrogate: Toluene-d8	13.0		"	13.3	97.5	51-150				
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3	96.4	50.1-150				

Summit Scientific

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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120609 - EPA 5030 Water MS

LCS (2120609-BS1)

Prepared: 12/06/12 Analyzed: 12/07/12

Benzene	44.8	1.0	ug/l	50.0		89.7	51-132			
Bromobenzene	48.4	1.0	"	50.0		96.8	90-110			
Bromochloromethane	49.3	5.0	"	50.0		98.6	83-120			
Bromodichloromethane	51.0	2.0	"	50.0		102	82-117			
Bromoform	47.2	1.0	"	50.0		94.3	76-112			
Bromomethane	50.5	1.0	"	50.0		101	60-144			
n-Butylbenzene	45.3	1.0	"	50.0		90.7	81-118			
sec-Butylbenzene	45.1	1.0	"	50.0		90.2	84-113			
tert-Butylbenzene	46.3	1.0	"	50.0		92.5	87-112			
Carbon tetrachloride	43.9	1.0	"	50.0		87.8	68-118			
Chlorobenzene	48.1	1.0	"	50.0		96.2	87-113			
Chloroethane	49.5	1.0	"	50.0		99.0	48-147			
Chloroform	48.4	5.0	"	50.0		96.7	85-116			
Chloromethane	51.6	1.0	"	50.0		103	60-133			
Chlorodibromomethane	49.1	1.0	"	50.0		98.2	80-117			
2-Chlorotoluene	47.8	1.0	"	50.0		95.6	84-117			
4-Chlorotoluene	48.3	1.0	"	50.0		96.6	86-114			
1,2-Dibromo-3-chloropropane	53.5	1.0	"	50.0		107	62-126			
1,2-Dibromoethane (EDB)	51.5	1.0	"	50.0		103	84-119			
Dibromomethane	52.2	1.0	"	50.0		104	83-118			
1,2-Dichlorobenzene	49.5	1.0	"	50.0		99.0	90-110			
1,3-Dichlorobenzene	47.7	1.0	"	50.0		95.5	90-110			
1,4-Dichlorobenzene	47.2	1.0	"	50.0		94.5	87-110			
Dichlorodifluoromethane	47.7	1.0	"	50.0		95.4	60-115			
1,1-Dichloroethane	50.0	1.0	"	50.0		100	71-131			
1,2-Dichloroethane (EDC)	48.8	1.0	"	50.0		97.5	84-117			
1,1-Dichloroethene	44.8	1.0	"	50.0		89.6	69-129			
cis-1,2-Dichloroethene	51.0	1.0	"	50.0		102	81-124			
trans-1,2-Dichloroethene	47.0	1.0	"	50.0		94.1	66-140			
1,2-Dichloropropane	48.6	1.0	"	50.0		97.1	86-114			
1,3-Dichloropropane	50.4	1.0	"	50.0		101	83-122			
2,2-Dichloropropane	39.9	1.0	"	50.0		79.8	42-130			
1,1-Dichloropropene	44.4	1.0	"	50.0		88.8	75-117			
cis-1,3-Dichloropropene	48.2	1.0	"	50.0		96.5	72-125			
trans-1,3-Dichloropropene	49.7	1.0	"	50.0		99.4	73-120			
Ethylbenzene	47.2	1.0	"	50.0		94.4	58-146			
Hexachlorobutadiene	49.9	1.0	"	50.0		99.7	78-118			
Tert-amyl methyl ether	48.7	1.0	"	49.6		98.2	72-128			

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Project: 1770 13th St
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Project Manager: Craig Lugowski

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

LCS (2120609-BS1)

Prepared: 12/06/12 Analyzed: 12/07/12

Tert-butyl alcohol	214	20	ug/l	250		85.7	66-115			
Ethyl tert-butyl ether	52.1	10	"	50.1		104	74-131			
Isopropylbenzene	45.7	1.0	"	50.0		91.4	77-115			
Di-isopropyl ether	51.8	5.0	"	49.9		104	77-119			
p-Isopropyltoluene	45.9	1.0	"	50.0		91.8	84-110			
Methylene Chloride	54.5	5.0	"	50.0		109	36-156			
Methyl tert-butyl ether	51.1	5.0	"	50.1		102	71-130			
Naphthalene	45.5	1.0	"	50.0		90.9	76-128			
n-Propylbenzene	46.4	1.0	"	50.0		92.7	82-117			
Styrene	48.4	1.0	"	50.0		96.7	82-123			
1,1,2,2-Tetrachloroethane	46.6	1.0	"	50.0		93.2	66-126			
1,1,1,2-Tetrachloroethane	48.7	1.0	"	50.0		97.4	86-116			
Tetrachloroethene	45.2	1.0	"	50.0		90.5	74-121			
Toluene	46.2	1.0	"	50.0		92.5	51-138			
1,2,3-Trichlorobenzene	54.4	1.0	"	50.0		109	81-122			
1,2,4-Trichlorobenzene	49.2	1.0	"	50.0		98.4	87-115			
1,1,2-Trichloroethane	52.2	1.0	"	50.0		104	77-129			
1,1,1-Trichloroethane	46.0	1.0	"	50.0		92.0	75-120			
Trichloroethene	50.6	1.0	"	50.0		101	88-114			
Trichlorofluoromethane	42.6	1.0	"	50.0		85.2	65-129			
1,2,3-Trichloropropane	50.5	1.0	"	50.0		101	72-128			
1,3,5-Trimethylbenzene	45.3	1.0	"	50.0		90.5	86-110			
1,2,4-Trimethylbenzene	46.7	1.0	"	50.0		93.3	85-117			
Vinyl chloride	44.4	1.0	"	50.0		88.9	65-133			
m,p-Xylene	89.8	2.0	"	100		89.8	57-144			
o-Xylene	46.9	1.0	"	50.0		93.8	53-146			
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.2		95.9	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	51-150			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.3	50.1-150			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

LCS Dup (2120609-BSD1)

Prepared: 12/06/12 Analyzed: 12/07/12

Benzene	47.1	1.0	ug/l	50.0		94.2	51-132	4.92	17	
Bromobenzene	46.8	1.0	"	50.0		93.7	90-110	3.26	10	
Bromochloromethane	49.8	5.0	"	50.0		99.6	83-120	0.949	19	
Bromodichloromethane	50.8	2.0	"	50.0		102	82-117	0.255	15	
Bromoform	47.4	1.0	"	50.0		94.7	76-112	0.423	12	
Bromomethane	52.2	1.0	"	50.0		104	60-144	3.33	24	
n-Butylbenzene	44.6	1.0	"	50.0		89.1	81-118	1.74	10	
sec-Butylbenzene	44.2	1.0	"	50.0		88.5	84-113	1.95	10	
tert-Butylbenzene	45.2	1.0	"	50.0		90.4	87-112	2.36	10	
Carbon tetrachloride	46.0	1.0	"	50.0		92.0	68-118	4.74	13	
Chlorobenzene	50.0	1.0	"	50.0		100	87-113	3.89	13	
Chloroethane	50.2	1.0	"	50.0		100	48-147	1.38	24	
Chloroform	50.7	5.0	"	50.0		101	85-116	4.65	19	
Chloromethane	52.9	1.0	"	50.0		106	60-133	2.56	23	
Chlorodibromomethane	49.4	1.0	"	50.0		98.8	80-117	0.609	12	
2-Chlorotoluene	46.7	1.0	"	50.0		93.5	84-117	2.26	10	
4-Chlorotoluene	47.4	1.0	"	50.0		94.8	86-114	1.86	10	
1,2-Dibromo-3-chloropropane	52.0	1.0	"	50.0		104	62-126	2.94	10	
1,2-Dibromoethane (EDB)	52.1	1.0	"	50.0		104	84-119	1.12	12	
Dibromomethane	52.0	1.0	"	50.0		104	83-118	0.327	14	
1,2-Dichlorobenzene	48.4	1.0	"	50.0		96.9	90-110	2.14	10	
1,3-Dichlorobenzene	46.4	1.0	"	50.0		92.8	90-110	2.80	10	
1,4-Dichlorobenzene	45.8	1.0	"	50.0		91.7	87-110	3.05	10	
Dichlorodifluoromethane	47.9	1.0	"	50.0		95.7	60-115	0.335	21	
1,1-Dichloroethane	47.1	1.0	"	50.0		94.3	71-131	5.97	20	
1,2-Dichloroethane (EDC)	51.6	1.0	"	50.0		103	84-117	5.62	12	
1,1-Dichloroethene	46.0	1.0	"	50.0		92.1	69-129	2.69	22	
cis-1,2-Dichloroethene	51.7	1.0	"	50.0		103	81-124	1.32	20	
trans-1,2-Dichloroethene	48.0	1.0	"	50.0		95.9	66-140	1.94	22	
1,2-Dichloropropane	50.0	1.0	"	50.0		100	86-114	2.98	14	
1,3-Dichloropropane	52.5	1.0	"	50.0		105	83-122	4.14	12	
2,2-Dichloropropane	40.6	1.0	"	50.0		81.3	42-130	1.86	19	
1,1-Dichloropropene	46.6	1.0	"	50.0		93.1	75-117	4.73	14	
cis-1,3-Dichloropropene	49.2	1.0	"	50.0		98.4	72-125	1.91	21	
trans-1,3-Dichloropropene	49.1	1.0	"	50.0		98.1	73-120	1.34	16	
Ethylbenzene	48.4	1.0	"	50.0		96.8	58-146	2.49	16	
Hexachlorobutadiene	47.9	1.0	"	50.0		95.9	78-118	3.93	10	
Tert-amyl methyl ether	49.7	1.0	"	49.6		100	72-128	1.93	18	

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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2120609 - EPA 5030 Water MS

LCS Dup (2120609-BSD1)

Prepared: 12/06/12 Analyzed: 12/07/12

Tert-butyl alcohol	222	20	ug/l	250		88.6	66-115	3.35	19	
Ethyl tert-butyl ether	49.2	10	"	50.1		98.2	74-131	5.70	20	
Isopropylbenzene	48.0	1.0	"	50.0		96.0	77-115	4.93	14	
Di-isopropyl ether	48.4	5.0	"	49.9		97.0	77-119	6.88	20	
p-Isopropyltoluene	44.7	1.0	"	50.0		89.4	84-110	2.58	11	
Methylene Chloride	57.2	5.0	"	50.0		114	36-156	4.83	32	
Methyl tert-butyl ether	48.7	5.0	"	50.1		97.3	71-130	4.79	22	
Naphthalene	44.9	1.0	"	50.0		89.8	76-128	1.19	10	
n-Propylbenzene	45.7	1.0	"	50.0		91.5	82-117	1.39	10	
Styrene	49.3	1.0	"	50.0		98.6	82-123	1.94	14	
1,1,2,2-Tetrachloroethane	46.6	1.0	"	50.0		93.1	66-126	0.107	10	
1,1,1,2-Tetrachloroethane	50.5	1.0	"	50.0		101	86-116	3.55	14	
Tetrachloroethane	46.8	1.0	"	50.0		93.7	74-121	3.50	14	
Toluene	47.9	1.0	"	50.0		95.7	51-138	3.49	17	
1,2,3-Trichlorobenzene	55.3	1.0	"	50.0		111	81-122	1.79	10	
1,2,4-Trichlorobenzene	49.0	1.0	"	50.0		98.1	87-115	0.326	10	
1,1,2-Trichloroethane	50.9	1.0	"	50.0		102	77-129	2.60	17	
1,1,1-Trichloroethane	48.3	1.0	"	50.0		96.7	75-120	4.98	16	
Trichloroethene	50.9	1.0	"	50.0		102	88-114	0.571	14	
Trichlorofluoromethane	42.9	1.0	"	50.0		85.7	65-129	0.562	22	
1,2,3-Trichloropropane	47.9	1.0	"	50.0		95.8	72-128	5.31	10	
1,3,5-Trimethylbenzene	45.0	1.0	"	50.0		90.1	86-110	0.487	10	
1,2,4-Trimethylbenzene	45.4	1.0	"	50.0		90.7	85-117	2.85	10	
Vinyl chloride	47.2	1.0	"	50.0		94.5	65-133	6.09	21	
m,p-Xylene	94.5	2.0	"	100		94.5	57-144	5.06	16	
o-Xylene	48.0	1.0	"	50.0		95.9	53-146	2.23	15	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		105	49.7-150			
Surrogate: Toluene-d8	13.5		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	50.1-150			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

Matrix Spike (2120609-MS1)	Source: R212006-01			Prepared: 12/06/12		Analyzed: 12/07/12	
Benzene	44.5	1.0	ug/l	49.8	ND	89.5	34-141
Bromobenzene	46.0	1.0	"	49.8	ND	92.5	66-131
Bromochloromethane	50.7	5.0	"	49.8	ND	102	74-125
Bromodichloromethane	50.5	2.0	"	49.8	ND	101	64-131
Bromoform	46.1	1.0	"	49.8	ND	92.7	63-122
Bromomethane	51.7	1.0	"	49.8	ND	104	46-155
n-Butylbenzene	43.3	1.0	"	49.8	ND	87.1	47-142
sec-Butylbenzene	43.1	1.0	"	49.8	ND	86.7	52-135
tert-Butylbenzene	44.5	1.0	"	49.8	ND	89.5	53-137
Carbon tetrachloride	44.2	1.0	"	49.8	ND	88.7	62-121
Chlorobenzene	46.9	1.0	"	49.8	ND	94.2	64-131
Chloroethane	49.3	1.0	"	49.8	ND	99.1	60-130
Chloroform	50.0	5.0	"	49.8	ND	100	70-130
Chloromethane	51.4	1.0	"	49.8	ND	103	62-130
Chlorodibromomethane	48.0	1.0	"	49.8	ND	96.5	60-134
2-Chlorotoluene	46.1	1.0	"	49.8	ND	92.6	58-138
4-Chlorotoluene	46.7	1.0	"	49.8	ND	93.8	62-131
1,2-Dibromo-3-chloropropane	53.3	1.0	"	49.8	ND	107	63-125
1,2-Dibromoethane (EDB)	49.9	1.0	"	49.8	ND	100	66-131
Dibromomethane	50.7	1.0	"	49.8	ND	102	70-127
1,2-Dichlorobenzene	47.9	1.0	"	49.8	ND	96.2	62-134
1,3-Dichlorobenzene	45.1	1.0	"	49.8	ND	90.7	60-133
1,4-Dichlorobenzene	45.2	1.0	"	49.8	ND	90.8	63-127
Dichlorodifluoromethane	55.8	1.0	"	49.8	ND	112	24-136
1,1-Dichloroethane	49.7	1.0	"	49.8	ND	99.9	73-124
1,2-Dichloroethane (EDC)	48.5	1.0	"	49.8	ND	97.5	75-122
1,1-Dichloroethene	46.5	1.0	"	49.8	ND	93.5	70-123
cis-1,2-Dichloroethene	49.9	1.0	"	49.8	ND	100	72-129
trans-1,2-Dichloroethene	47.5	1.0	"	49.8	ND	95.5	76-126
1,2-Dichloropropane	48.0	1.0	"	49.8	ND	96.4	68-129
1,3-Dichloropropane	49.7	1.0	"	49.8	ND	99.9	69-130
2,2-Dichloropropane	39.4	1.0	"	49.8	ND	79.2	37-126
1,1-Dichloropropene	44.3	1.0	"	49.8	ND	88.9	61-125
cis-1,3-Dichloropropene	47.9	1.0	"	49.8	ND	96.3	59-127
trans-1,3-Dichloropropene	49.6	1.0	"	49.8	ND	99.6	59-126
Ethylbenzene	46.0	1.0	"	49.8	ND	92.5	29-160
Hexachlorobutadiene	46.3	1.0	"	49.8	ND	93.1	41-141
Tert-amyl methyl ether	47.1	1.0	"	49.4	ND	95.4	61-132

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Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

Matrix Spike (2120609-MS1)	Source: R212006-01			Prepared: 12/06/12		Analyzed: 12/07/12	
Ethyl tert-butyl ether	48.2	10	ug/l	49.9	ND	96.7	65-130
Tert-butyl alcohol	226	20	"	249	ND	90.9	60-130
Isopropylbenzene	44.8	1.0	"	49.8	ND	90.1	44-143
Di-isopropyl ether	51.3	5.0	"	49.7	ND	103	73-128
p-Isopropyltoluene	43.7	1.0	"	49.8	ND	87.9	47-137
Methylene Chloride	49.9	5.0	"	49.8	ND	100	42-129
Methyl tert-butyl ether	50.9	5.0	"	49.9	ND	102	70-124
Naphthalene	44.5	1.0	"	49.8	ND	89.4	73-132
n-Propylbenzene	44.8	1.0	"	49.8	ND	90.0	61-129
Styrene	47.4	1.0	"	49.8	ND	95.2	36-146
1,1,2,2-Tetrachloroethane	54.1	1.0	"	49.8	ND	109	71-140
1,1,1,2-Tetrachloroethane	48.0	1.0	"	49.8	ND	96.5	59-137
Tetrachloroethane	44.1	1.0	"	49.8	ND	88.7	49-137
Toluene	45.9	1.0	"	49.8	ND	92.3	27-151
1,2,3-Trichlorobenzene	54.5	1.0	"	49.8	ND	110	61-137
1,2,4-Trichlorobenzene	48.5	1.0	"	49.8	ND	97.5	55-141
1,1,2-Trichloroethane	50.5	1.0	"	49.8	ND	102	67-134
1,1,1-Trichloroethane	46.8	1.0	"	49.8	ND	93.9	66-128
Trichloroethene	43.5	1.0	"	49.8	ND	87.3	65-119
Trichlorofluoromethane	42.7	1.0	"	49.8	ND	85.8	65-121
1,2,3-Trichloropropane	49.3	1.0	"	49.8	ND	99.1	69-125
1,3,5-Trimethylbenzene	43.7	1.0	"	49.8	ND	87.8	50-138
1,2,4-Trimethylbenzene	44.8	1.0	"	49.8	ND	90.1	54-137
Vinyl chloride	46.0	1.0	"	49.8	ND	92.5	71-124
m,p-Xylene	89.2	2.0	"	99.5	ND	89.7	20-166
o-Xylene	45.9	1.0	"	49.8	ND	92.3	33-159
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.9</i>		<i>"</i>	<i>13.2</i>		<i>98.2</i>	<i>49.7-150</i>
<i>Surrogate: Toluene-d8</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>51-150</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.9</i>	<i>50.1-150</i>

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

Matrix Spike Dup (2120609-MSD1)

Source: R212006-01

Prepared: 12/06/12 Analyzed: 12/07/12

Benzene	47.2	1.0	ug/l	50.0	ND	94.6	34-141	5.94	32	
Bromobenzene	49.0	1.0	"	50.0	ND	98.1	66-131	6.32	30	
Bromochloromethane	52.1	5.0	"	50.0	ND	104	74-125	2.73	30	
Bromodichloromethane	52.5	2.0	"	50.0	ND	105	64-131	4.04	30	
Bromoform	48.3	1.0	"	50.0	ND	96.7	63-122	4.65	27	
Bromomethane	53.2	1.0	"	50.0	ND	106	46-155	2.87	95	
n-Butylbenzene	46.6	1.0	"	50.0	ND	93.3	47-142	7.32	33	
sec-Butylbenzene	45.3	1.0	"	50.0	ND	90.6	52-135	4.84	33	
tert-Butylbenzene	46.7	1.0	"	50.0	ND	93.5	53-137	4.81	38	
Carbon tetrachloride	47.4	1.0	"	50.0	ND	94.8	62-121	7.02	21	
Chlorobenzene	50.2	1.0	"	50.0	ND	100	64-131	6.85	30	
Chloroethane	52.3	1.0	"	50.0	ND	105	60-130	5.95	29	
Chloroform	50.6	5.0	"	50.0	ND	101	70-130	1.29	32	
Chloromethane	54.8	1.0	"	50.0	ND	110	62-130	6.43	24	
Chlorodibromomethane	49.9	1.0	"	50.0	ND	100	60-134	3.92	30	
2-Chlorotoluene	48.8	1.0	"	50.0	ND	97.7	58-138	5.78	34	
4-Chlorotoluene	48.8	1.0	"	50.0	ND	97.7	62-131	4.51	29	
1,2-Dibromo-3-chloropropane	58.2	1.0	"	50.0	ND	116	63-125	8.86	34	
1,2-Dibromoethane (EDB)	53.5	1.0	"	50.0	ND	107	66-131	6.96	31	
Dibromomethane	52.5	1.0	"	50.0	ND	105	70-127	3.55	28	
1,2-Dichlorobenzene	50.8	1.0	"	50.0	ND	102	62-134	6.04	29	
1,3-Dichlorobenzene	48.0	1.0	"	50.0	ND	96.0	60-133	6.03	30	
1,4-Dichlorobenzene	47.9	1.0	"	50.0	ND	95.9	63-127	5.84	31	
Dichlorodifluoromethane	54.6	1.0	"	50.0	ND	109	24-136	2.29	31	
1,1-Dichloroethane	48.9	1.0	"	50.0	ND	97.8	73-124	1.64	33	
1,2-Dichloroethane (EDC)	51.2	1.0	"	50.0	ND	102	75-122	5.30	19	
1,1-Dichloroethene	47.5	1.0	"	50.0	ND	95.1	70-123	2.16	32	
cis-1,2-Dichloroethene	52.0	1.0	"	50.0	ND	104	72-129	4.20	31	
trans-1,2-Dichloroethene	48.6	1.0	"	50.0	ND	97.3	76-126	2.33	31	
1,2-Dichloropropane	50.8	1.0	"	50.0	ND	102	68-129	5.63	29	
1,3-Dichloropropane	53.3	1.0	"	50.0	ND	107	69-130	6.89	31	
2,2-Dichloropropane	40.9	1.0	"	50.0	ND	81.9	37-126	3.83	33	
1,1-Dichloropropene	47.3	1.0	"	50.0	ND	94.7	61-125	6.74	28	
cis-1,3-Dichloropropene	49.9	1.0	"	50.0	ND	99.9	59-127	4.11	28	
trans-1,3-Dichloropropene	51.9	1.0	"	50.0	ND	104	59-126	4.51	28	
Ethylbenzene	49.2	1.0	"	50.0	ND	98.4	29-160	6.56	50	
Hexachlorobutadiene	51.7	1.0	"	50.0	ND	103	41-141	11.0	35	
Tert-amyl methyl ether	49.1	1.0	"	49.6	ND	99.1	61-132	4.11	34	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120609 - EPA 5030 Water MS

Matrix Spike Dup (2120609-MSD1)

Source: R212006-01

Prepared: 12/06/12 Analyzed: 12/07/12

Ethyl tert-butyl ether	50.1	10	ug/l	50.1	ND	100	65-130	3.77	38	
Tert-butyl alcohol	232	20	"	250	ND	92.9	60-130	2.58	31	
Di-isopropyl ether	49.5	5.0	"	49.9	ND	99.3	73-128	3.62	25	
Isopropylbenzene	48.1	1.0	"	50.0	ND	96.2	44-143	7.01	35	
p-Isopropyltoluene	46.4	1.0	"	50.0	ND	92.9	47-137	5.97	38	
Methylene Chloride	51.9	5.0	"	50.0	ND	104	42-129	3.95	31	
Methyl tert-butyl ether	50.1	5.0	"	50.1	ND	100	70-124	1.60	35	
Naphthalene	48.2	1.0	"	50.0	ND	96.4	73-132	7.93	23	
n-Propylbenzene	47.4	1.0	"	50.0	ND	94.9	61-129	5.72	35	
Styrene	50.2	1.0	"	50.0	ND	100	36-146	5.74	33	
1,1,2,2-Tetrachloroethane	56.5	1.0	"	50.0	ND	113	71-140	4.39	32	
1,1,1,2-Tetrachloroethane	51.5	1.0	"	50.0	ND	103	59-137	7.05	32	
Tetrachloroethene	47.0	1.0	"	50.0	ND	94.1	49-137	6.35	32	
Toluene	48.4	1.0	"	50.0	ND	96.9	27-151	5.32	25	
1,2,3-Trichlorobenzene	58.1	1.0	"	50.0	ND	116	61-137	6.28	27	
1,2,4-Trichlorobenzene	53.3	1.0	"	50.0	ND	107	55-141	9.44	28	
1,1,2-Trichloroethane	52.8	1.0	"	50.0	ND	106	67-134	4.36	29	
1,1,1-Trichloroethane	48.5	1.0	"	50.0	ND	97.1	66-128	3.73	31	
Trichloroethene	46.7	1.0	"	50.0	ND	93.5	65-119	7.19	30	
Trichlorofluoromethane	44.2	1.0	"	50.0	ND	88.4	65-121	3.45	30	
1,2,3-Trichloropropane	51.9	1.0	"	50.0	ND	104	69-125	5.11	33	
1,3,5-Trimethylbenzene	46.0	1.0	"	50.0	ND	92.2	50-138	5.24	34	
1,2,4-Trimethylbenzene	47.0	1.0	"	50.0	ND	94.0	54-137	4.64	34	
Vinyl chloride	48.7	1.0	"	50.0	ND	97.5	71-124	5.70	26	
m,p-Xylene	95.0	2.0	"	99.9	ND	95.0	20-166	6.22	36	
o-Xylene	48.0	1.0	"	50.0	ND	96.0	33-159	4.35	26	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3		100	51-150			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120507 - EPA 3510B

Blank (2120507-BLK1)

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	ND	10.0	ug/l							
Acenaphthylene	ND	10.0	"							
Anthracene	ND	10.0	"							
Benzo (a) anthracene	ND	10.0	"							
Benzo (b) fluoranthene	ND	10.0	"							
Benzo (k) fluoranthene	ND	10.0	"							
Benzo (g,h,i) perylene	ND	10.0	"							
Benzo (a) pyrene	ND	10.0	"							
Chrysene	ND	10.0	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Pyrene	ND	10.0	"							
<i>Surrogate: Nitrobenzene-d5</i>	<i>81.3</i>		<i>"</i>	<i>100</i>		<i>81.3</i>	<i>30-138</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>69.8</i>		<i>"</i>	<i>100</i>		<i>69.8</i>	<i>30-150</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>32.2</i>		<i>"</i>	<i>100</i>		<i>32.2</i>	<i>30-149</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>107</i>		<i>"</i>	<i>98.6</i>		<i>109</i>	<i>30-144</i>			

LCS (2120507-BS1)

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	127	10.0	ug/l	200		63.6	50-130			
Acenaphthylene	67.1	10.0	"	100		67.1	63-111			
Anthracene	66.1	10.0	"	100		66.1	55-119			
Benzo (a) anthracene	76.5	10.0	"	100		76.5	36-145			
Benzo (b) fluoranthene	101	10.0	"	100		101	38-132			
Benzo (k) fluoranthene	100	10.0	"	100		100	30-155			
Benzo (g,h,i) perylene	66.8	10.0	"	100		66.8	28-138			
Benzo (a) pyrene	86.5	10.0	"	100		86.5	27-155			
Chrysene	78.1	10.0	"	100		78.1	46-123			
Dibenz (a,h) anthracene	76.9	10.0	"	100		76.9	37-118			
Fluoranthene	72.2	10.0	"	100		72.2	52-127			
Fluorene	63.0	10.0	"	100		63.0	60-113			
Indeno (1,2,3-cd) pyrene	75.1	10.0	"	100		75.1	20-154			
Naphthalene	64.8	10.0	"	100		64.8	62-110			
Phenanthrene	68.1	10.0	"	100		68.1	59-118			
Pyrene	157	10.0	"	199		78.9	32-153			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120507 - EPA 3510B

LCS (2120507-BS1)

Prepared: 12/05/12 Analyzed: 12/06/12

Surrogate: Nitrobenzene-d5	77.9		ug/l	100		77.9	30-138			
Surrogate: 2-Fluorobiphenyl	70.6		"	100		70.6	30-150			
Surrogate: 2,4,6-Tribromophenol	63.2		"	100		63.2	30-149			
Surrogate: Terphenyl-dl4	87.6		"	98.6		88.8	30-144			

LCS Dup (2120507-BSD1)

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	130	10.0	ug/l	200		65.2	50-130	2.50	13.4	
Acenaphthylene	68.9	10.0	"	100		68.9	63-111	2.56	8	
Anthracene	66.8	10.0	"	100		66.8	55-119	1.02	10.7	
Benzo (a) anthracene	67.8	10.0	"	100		67.8	36-145	12.0	18	
Benzo (b) fluoranthene	76.4	10.0	"	100		76.4	38-132	27.8	27	
Benzo (k) fluoranthene	76.0	10.0	"	100		76.0	30-155	27.4	15	
Benzo (g,h,i) perylene	52.0	10.0	"	100		52.0	28-138	24.9	23	
Benzo (a) pyrene	76.3	10.0	"	100		76.3	27-155	12.5	13	
Chrysene	67.1	10.0	"	100		67.1	46-123	15.1	12	
Dibenz (a,h) anthracene	62.5	10.0	"	100		62.5	37-118	20.7	16	
Fluoranthene	73.7	10.0	"	100		73.7	52-127	2.06	10	
Fluorene	63.9	10.0	"	100		63.9	60-113	1.45	10	
Indeno (1,2,3-cd) pyrene	69.6	10.0	"	100		69.6	20-154	7.57	17	
Naphthalene	65.6	10.0	"	100		65.6	62-110	1.20	10	
Phenanthrene	69.6	10.0	"	100		69.6	59-118	2.18	10	
Pyrene	130	10.0	"	199		65.3	32-153	18.8	21	
Surrogate: Nitrobenzene-d5	81.5		"	100		81.5	30-138			
Surrogate: 2-Fluorobiphenyl	68.8		"	100		68.8	30-150			
Surrogate: 2,4,6-Tribromophenol	71.4		"	100		71.4	30-149			
Surrogate: Terphenyl-dl4	72.5		"	98.6		73.5	30-144			

Matrix Spike (2120507-MS1)

Source: R212001-04

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	114	10.0	ug/l	100	52.0	61.9	43-123			
Acenaphthylene	130	10.0	"	100	63.8	66.0	42-113			
Anthracene	76.5	10.0	"	100	12.1	64.4	46-114			
Benzo (a) anthracene	65.5	10.0	"	100	0.780	64.8	29-134			
Benzo (b) fluoranthene	74.0	10.0	"	100	ND	74.0	14-115			
Benzo (k) fluoranthene	67.9	10.0	"	100	ND	67.9	34-108			
Benzo (g,h,i) perylene	49.5	10.0	"	100	ND	49.5	27-110			
Benzo (a) pyrene	68.6	10.0	"	100	ND	68.6	32-127			
Chrysene	64.9	10.0	"	100	0.580	64.3	33-115			
Dibenz (a,h) anthracene	58.4	10.0	"	100	ND	58.4	29-98			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120507 - EPA 3510B

Matrix Spike (2120507-MS1)

Source: R212001-04 Prepared: 12/05/12 Analyzed: 12/06/12

Fluoranthene	78.4	10.0	ug/l	100	6.88	71.5	33-142			
Fluorene	102	10.0	"	100	42.7	58.9	48-112			
Indeno (1,2,3-cd) pyrene	64.0	10.0	"	100	ND	64.0	28-118			
Naphthalene	260	10.0	"	100	184	75.9	51-112			
Phenanthrene	128	10.0	"	100	63.8	64.2	32-135			
Pyrene	77.2	10.0	"	100	7.42	69.7	35-125			
<i>Surrogate: Nitrobenzene-d5</i>	78.8		"	100		78.8	30-138			
<i>Surrogate: 2-Fluorobiphenyl</i>	76.1		"	100		76.1	30-150			
<i>Surrogate: 2,4,6-Tribromophenol</i>	68.7		"	100		68.7	30-149			
<i>Surrogate: Terphenyl-d14</i>	76.7		"	98.6		77.8	30-144			

Matrix Spike (2120507-MS2)

Source: R211230-02 Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	136	10.0	ug/l	200	ND	67.8	43-123			
Acenaphthylene	72.3	10.0	"	100	ND	72.3	42-113			
Anthracene	71.1	10.0	"	100	ND	71.1	46-114			
Benzo (a) anthracene	68.2	10.0	"	100	ND	68.2	29-134			
Benzo (b) fluoranthene	79.3	10.0	"	100	ND	79.3	14-115			
Benzo (k) fluoranthene	74.1	10.0	"	100	ND	74.1	34-108			
Benzo (g,h,i) perylene	50.5	10.0	"	100	ND	50.5	27-110			
Benzo (a) pyrene	72.6	10.0	"	100	ND	72.6	32-127			
Chrysene	72.0	10.0	"	100	ND	72.0	33-115			
Dibenz (a,h) anthracene	60.9	10.0	"	100	ND	60.9	29-98			
Fluoranthene	76.5	10.0	"	100	ND	76.5	33-142			
Fluorene	66.8	10.0	"	100	ND	66.8	48-112			
Indeno (1,2,3-cd) pyrene	66.3	10.0	"	100	ND	66.3	28-118			
Naphthalene	69.4	10.0	"	100	ND	69.4	51-112			
Phenanthrene	71.5	10.0	"	100	ND	71.5	32-135			
Pyrene	150	10.0	"	199	ND	75.4	35-125			
<i>Surrogate: Nitrobenzene-d5</i>	83.9		"	100		83.9	30-138			
<i>Surrogate: 2-Fluorobiphenyl</i>	79.5		"	100		79.5	30-150			
<i>Surrogate: 2,4,6-Tribromophenol</i>	78.9		"	100		78.9	30-149			
<i>Surrogate: Terphenyl-d14</i>	82.5		"	98.6		83.7	30-144			

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Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120507 - EPA 3510B

Matrix Spike Dup (2120507-MSD1)	Source: R212001-04			Prepared: 12/05/12		Analyzed: 12/06/12				
Acenaphthene	113	10.0	ug/l	100	52.0	60.5	43-123	1.20	17.3	
Acenaphthylene	129	10.0	"	100	63.8	65.1	42-113	0.680	18.4	
Anthracene	78.2	10.0	"	100	12.1	66.1	46-114	2.17	53.7	
Benzo (a) anthracene	68.0	10.0	"	100	0.780	67.3	29-134	3.74	15.1	
Benzo (b) fluoranthene	71.0	10.0	"	100	ND	71.0	14-115	4.05	12.9	
Benzo (k) fluoranthene	68.8	10.0	"	100	ND	68.8	34-108	1.32	14.2	
Benzo (g,h,i) perylene	49.9	10.0	"	100	ND	49.9	27-110	0.845	11	
Benzo (a) pyrene	72.9	10.0	"	100	ND	72.9	32-127	6.02	11.2	
Chrysene	66.2	10.0	"	100	0.580	65.6	33-115	2.01	11	
Dibenz (a,h) anthracene	60.2	10.0	"	100	ND	60.2	29-98	2.93	18.1	
Fluoranthene	80.2	10.0	"	100	6.88	73.3	33-142	2.27	12.4	
Fluorene	102	10.0	"	100	42.7	59.3	48-112	0.393	16.9	
Indeno (1,2,3-cd) pyrene	65.8	10.0	"	100	ND	65.8	28-118	2.71	11	
Naphthalene	247	10.0	"	100	184	63.4	51-112	4.92	19.6	
Phenanthrene	132	10.0	"	100	63.8	67.9	32-135	2.85	57.7	
Pyrene	82.1	10.0	"	100	7.42	74.6	35-125	6.15	14.2	
<i>Surrogate: Nitrobenzene-d5</i>	<i>77.5</i>		<i>"</i>	<i>100</i>		<i>77.5</i>	<i>30-138</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>74.5</i>		<i>"</i>	<i>100</i>		<i>74.5</i>	<i>30-150</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>72.9</i>		<i>"</i>	<i>100</i>		<i>72.9</i>	<i>30-149</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>74.5</i>		<i>"</i>	<i>98.6</i>		<i>75.5</i>	<i>30-144</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/11/12 14:41

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 10, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/12 13:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-MW3-120312	R212002-01	Water	12/03/12 11:35	12/03/12 13:25
COB-MW5-120312	R212002-02	Water	12/03/12 12:10	12/03/12 13:25
COB-MW7-120312	R212002-03	Water	12/03/12 10:55	12/03/12 13:25
COB-MW8-120312	R212002-04	Water	12/03/12 12:50	12/03/12 13:25
COB-FIELDDUP-120312	R212002-05	Water	12/03/12 11:40	12/03/12 13:25

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW3-120312
R212002-01 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	6.19	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		108 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	26	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW3-120312
R212002-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	60	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	11	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	4.3	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	800	100	"	100	"	"	"	"
n-Propylbenzene	2.9	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	7.4	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

Summit Scientific

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW3-120312
R212002-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	11	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	11	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	12	2.0	"	"	"	"	"	"
o-Xylene	31	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	1600	500	"	"	"	"	"	"

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	153	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	32.8	10.0	"	"	"	"	"	"	
Anthracene	14.4	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	57.7	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	371	100	"	10	"	"	"	"	
Phenanthrene	71.5	10.0	"	1	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW3-120312
R212002-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 11:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		86.1 %	30-138		2120507	12/05/12	12/06/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		85.3 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		80.5 %	30-149		"	"	"	"	
Surrogate: Terphenyl-d14		80.5 %	30-144		"	"	"	"	

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW5-120312
R212002-02 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/03/12 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	6.88	5.00	mg/L	1	2120323	12/03/12	12/04/12	8015 Full Carbon Chain	

Date Sampled: 12/03/12 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/12 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2120104	12/03/12	12/04/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW5-120312
R212002-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120104	12/03/12	12/04/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	2.9	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	4.9	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	4.5	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	1000	100	"	100	"	"	"	"
n-Propylbenzene	3.4	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW5-120312
R212002-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120104	12/03/12	12/04/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	4.8	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	12	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	ND	2.0	"	"	"	"	"	"
o-Xylene	1.6	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	1400	500	"	"	"	"	"	"

Date Sampled: 12/03/12 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.3 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 12:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	51.0	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	102	10.0	"	"	"	"	"	"	
Anthracene	17.9	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	12.0	10.0	"	"	"	"	"	"	
Fluorene	46.7	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	545	100	"	10	"	"	"	"	
Phenanthrene	86.2	10.0	"	1	"	"	"	"	
Pyrene	16.4	10.0	"	"	"	"	"	"	

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/10/12 09:58

COB-MW5-120312
R212002-02 (Water)

Summit Scientific

Semivolatiles Organic Compounds by EPA Method 8270D

Date Sampled: **12/03/12 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		85.5 %	30-138		2120507	12/05/12	12/06/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		84.1 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		74.2 %	30-149		"	"	"	"	
Surrogate: Terphenyl-d14		81.9 %	30-144		"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW7-120312
R212002-03 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/03/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	5.00	mg/L	1	2120323	12/03/12	12/03/12	8015 Full Carbon Chain	

Date Sampled: 12/03/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	28	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW7-120312
R212002-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	30	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	9.3	1.0	"	"	"	"	"	"
p-Isopropyltoluene	2.0	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	120	1.0	"	"	"	"	"	"
n-Propylbenzene	1.1	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	7.8	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW7-120312
R212002-03 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	9.2	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	4.2	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	5.8	2.0	"	"	"	"	"	"
o-Xylene	35	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	1200	500	"	"	"	"	"	"

Date Sampled: 12/03/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.5 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 10:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	80.3	10.0	ug/l	1	2120321	12/03/12	12/04/12	EPA 8270D	
Acenaphthylene	16.1	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	26.6	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	79.7	10.0	"	"	"	"	"	"	
Phenanthrene	25.0	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	

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Project: 1770 13th St
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Reported:
 12/10/12 09:58

COB-MW7-120312
R212002-03 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **12/03/12 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		79.9 %	30-138		2120321	12/03/12	12/04/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		71.2 %	30-150		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		73.0 %	30-149		"	"	"	"	
Surrogate: Terphenyl-d14		71.6 %	30-144		"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW8-120312
R212002-04 (Water)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	26.0	5.00	mg/L	1	2120323	12/03/12	12/03/12	8015 Full Carbon Chain	

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		106 %	47.2-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	780	100	ug/l	100	2120104	12/03/12	12/03/12	EPA 8260B	
Bromobenzene	ND	1.0	"	1	"	"	12/03/12	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	

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Reported:
12/10/12 09:58

COB-MW8-120312
R212002-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	710	100	"	100	"	"	12/03/12	"
Hexachlorobutadiene	ND	1.0	"	1	"	"	12/03/12	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	55	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	8.6	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	4700	100	"	100	"	"	12/03/12	"
n-Propylbenzene	16	1.0	"	1	"	"	12/03/12	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	210	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-MW8-120312
R212002-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	1.0	ug/l	1	2120104	12/03/12	12/03/12	EPA 8260B
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	47	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	62	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	220	2.0	"	"	"	"	"	"
o-Xylene	270	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	9700	500	"	"	"	"	12/03/12	"

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	49.7-150		"	"	12/03/12	"	
Surrogate: Toluene-d8		100 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50.1-150		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	444	200	ug/l	20	2120321	12/03/12	12/04/12	EPA 8270D	
Acenaphthylene	92.8	10.0	"	1	"	"	"	"	
Anthracene	91.0	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	52.7	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	28.6	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	38.6	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	14.4	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	71.9	10.0	"	"	"	"	"	"	
Chrysene	49.7	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	105	10.0	"	"	"	"	"	"	
Fluorene	207	200	"	20	"	"	"	"	
Indeno (1,2,3-cd) pyrene	12.2	10.0	"	1	"	"	"	"	
Naphthalene	3950	200	"	20	"	"	"	"	
Phenanthrene	494	200	"	"	"	"	"	"	
Pyrene	154	10.0	"	1	"	"	"	"	

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Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/10/12 09:58

COB-MW8-120312
R212002-04 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 12:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		115 %		30-138	2120321	12/03/12	12/04/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		71.9 %		30-150	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		72.4 %		30-149	"	"	"	"	
Surrogate: Terphenyl-dl4		68.1 %		30-144	"	"	"	"	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-FIELDDUP-120312
R212002-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/03/12 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	28	1.0	ug/l	1	2120104	12/03/12	12/04/12	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	2.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	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	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-FIELDDUP-120312
R212002-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
cis-1,3-Dichloropropene	ND	1.0	ug/l	1	2120104	12/03/12	12/04/12	EPA 8260B
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Ethylbenzene	62	1.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
Isopropylbenzene	12	1.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	4.9	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"
Naphthalene	740	100	"	100	"	"	"	"
n-Propylbenzene	3.1	1.0	"	1	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
Toluene	7.7	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	12	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	12	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
m,p-Xylene	13	2.0	"	"	"	"	"	"
o-Xylene	35	1.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	1700	500	"	"	"	"	"	"

Date Sampled: 12/03/12 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	49.7-150		"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

COB-FIELDDUP-120312
R212002-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Surrogate: Toluene-d8	97.9 %	51-150	2120104	12/03/12	12/04/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	93.0 %	50.1-150	"	"	"	"

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/03/12 11:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Acenaphthene	162	10.0	ug/l	1	2120507	12/05/12	12/06/12	EPA 8270D	
Acenaphthylene	33.8	10.0	"	"	"	"	"	"	
Anthracene	14.6	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	46.3	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	341	100	"	10	"	"	"	"	
Phenanthrene	72.3	10.0	"	1	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	

Date Sampled: 12/03/12 11:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: Nitrobenzene-d5	94.7 %	30-138			"	"	"	"	
Surrogate: 2-Fluorobiphenyl	90.9 %	30-150			"	"	"	"	
Surrogate: 2,4,6-Tribromophenol	84.5 %	30-149			"	"	"	"	
Surrogate: Terphenyl-d14	89.1 %	30-144			"	"	"	"	

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/10/12 09:58

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 2120323 - EPA 3520B

Blank (2120323-BLK1)				Prepared & Analyzed: 12/03/12							
C10-C28 (DRO)	ND	5.00	mg/L								
LCS (2120323-BS1)				Prepared & Analyzed: 12/03/12							
C10-C28 (DRO)	90.4	5.00	mg/L	83.5	108	80-149					
LCS Dup (2120323-BSD1)				Prepared: 12/03/12 Analyzed: 12/04/12							
C10-C28 (DRO)	63.9	5.00	mg/L	50.1	128	80-149	34.3	14			
Matrix Spike (2120323-MS1)				Source: R212001-01 Prepared: 12/03/12 Analyzed: 12/04/12							
C10-C28 (DRO)	62.0	5.00	mg/L	50.1	2.55	119	80-120				
Matrix Spike Dup (2120323-MSD1)				Source: R212001-01 Prepared: 12/03/12 Analyzed: 12/04/12							
C10-C28 (DRO)	60.3	5.00	mg/L	50.1	2.55	115	80-120	2.67	20		

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2120104 - EPA 5030 Water MS

Blank (2120104-BLK1)

Prepared & Analyzed: 12/01/12

Benzene	ND	1.0	ug/l	
Bromobenzene	ND	1.0	"	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	2.0	"	
Bromoform	ND	1.0	"	
Bromomethane	ND	1.0	"	
n-Butylbenzene	ND	1.0	"	
sec-Butylbenzene	ND	1.0	"	
tert-Butylbenzene	ND	1.0	"	
Carbon tetrachloride	ND	1.0	"	
Chlorobenzene	ND	1.0	"	
Chloroethane	ND	1.0	"	
Chloroform	ND	5.0	"	
Chloromethane	ND	1.0	"	
Chlorodibromomethane	ND	1.0	"	
2-Chlorotoluene	ND	1.0	"	
4-Chlorotoluene	ND	1.0	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	
1,2-Dibromoethane (EDB)	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	"	
1,2-Dichloroethane (EDC)	ND	1.0	"	
1,1-Dichloroethene	ND	1.0	"	
cis-1,2-Dichloroethene	ND	1.0	"	
trans-1,2-Dichloroethene	ND	1.0	"	
1,2-Dichloropropane	ND	1.0	"	
1,3-Dichloropropane	ND	1.0	"	
2,2-Dichloropropane	ND	1.0	"	
1,1-Dichloropropene	ND	1.0	"	
cis-1,3-Dichloropropene	ND	1.0	"	
trans-1,3-Dichloropropene	ND	1.0	"	
Ethylbenzene	ND	1.0	"	
Hexachlorobutadiene	ND	1.0	"	
Tert-amyl methyl ether	ND	1.0	"	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

Blank (2120104-BLK1)

Prepared & Analyzed: 12/01/12

Ethyl tert-butyl ether	ND	10	ug/l							
Tert-butyl alcohol	ND	20	"							
Isopropylbenzene	ND	1.0	"							
Di-isopropyl ether	ND	5.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethane	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.2		101	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		98.8	51-150			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		92.7	50.1-150			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

LCS (2120104-BS1)

Prepared & Analyzed: 12/01/12

Benzene	48.0	1.0	ug/l	50.0		95.9	51-132			
Bromobenzene	49.1	1.0	"	50.0		98.2	90-110			
Bromochloromethane	49.5	5.0	"	50.0		99.0	83-120			
Bromodichloromethane	49.4	2.0	"	50.0		98.8	82-117			
Bromoform	46.0	1.0	"	50.0		92.0	76-112			
Bromomethane	44.9	1.0	"	50.0		89.8	60-144			
n-Butylbenzene	49.4	1.0	"	50.0		98.7	81-118			
sec-Butylbenzene	48.6	1.0	"	50.0		97.3	84-113			
tert-Butylbenzene	49.6	1.0	"	50.0		99.2	87-112			
Carbon tetrachloride	47.1	1.0	"	50.0		94.2	68-118			
Chlorobenzene	49.8	1.0	"	50.0		99.6	87-113			
Chloroethane	48.0	1.0	"	50.0		96.1	48-147			
Chloroform	50.4	5.0	"	50.0		101	85-116			
Chloromethane	52.4	1.0	"	50.0		105	60-133			
Chlorodibromomethane	48.3	1.0	"	50.0		96.6	80-117			
2-Chlorotoluene	50.0	1.0	"	50.0		100	84-117			
4-Chlorotoluene	50.1	1.0	"	50.0		100	86-114			
1,2-Dibromo-3-chloropropane	48.6	1.0	"	50.0		97.2	62-126			
1,2-Dibromoethane (EDB)	51.0	1.0	"	50.0		102	84-119			
Dibromomethane	49.8	1.0	"	50.0		99.7	83-118			
1,2-Dichlorobenzene	50.2	1.0	"	50.0		100	90-110			
1,3-Dichlorobenzene	50.2	1.0	"	50.0		100	90-110			
1,4-Dichlorobenzene	49.3	1.0	"	50.0		98.5	87-110			
Dichlorodifluoromethane	44.5	1.0	"	50.0		89.0	60-115			
1,1-Dichloroethane	46.4	1.0	"	50.0		92.9	71-131			
1,2-Dichloroethane (EDC)	50.6	1.0	"	50.0		101	84-117			
1,1-Dichloroethene	45.4	1.0	"	50.0		90.9	69-129			
cis-1,2-Dichloroethene	50.7	1.0	"	50.0		101	81-124			
trans-1,2-Dichloroethene	47.3	1.0	"	50.0		94.6	66-140			
1,2-Dichloropropane	49.0	1.0	"	50.0		98.0	86-114			
1,3-Dichloropropane	51.0	1.0	"	50.0		102	83-122			
2,2-Dichloropropane	42.4	1.0	"	50.0		84.8	42-130			
1,1-Dichloropropene	47.5	1.0	"	50.0		94.9	75-117			
cis-1,3-Dichloropropene	48.7	1.0	"	50.0		97.3	72-125			
trans-1,3-Dichloropropene	49.2	1.0	"	50.0		98.4	73-120			
Ethylbenzene	48.3	1.0	"	50.0		96.7	58-146			
Hexachlorobutadiene	50.1	1.0	"	50.0		100	78-118			
Tert-amyl methyl ether	49.3	1.0	"	49.6		99.5	72-128			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

LCS (2120104-BS1)

Prepared & Analyzed: 12/01/12

Ethyl tert-butyl ether	47.6	10	ug/l	50.1		95.0	74-131			
Tert-butyl alcohol	222	20	"	250		89.0	66-115			
Isopropylbenzene	48.3	1.0	"	50.0		96.6	77-115			
Di-isopropyl ether	46.8	5.0	"	49.9		93.8	77-119			
p-Isopropyltoluene	50.0	1.0	"	50.0		99.9	84-110			
Methylene Chloride	47.6	5.0	"	50.0		95.1	36-156			
Methyl tert-butyl ether	46.0	5.0	"	50.1		91.9	71-130			
Naphthalene	41.4	1.0	"	50.0		82.7	76-128			
n-Propylbenzene	48.8	1.0	"	50.0		97.5	82-117			
Styrene	49.9	1.0	"	50.0		99.7	82-123			
1,1,2,2-Tetrachloroethane	49.3	1.0	"	50.0		98.6	66-126			
1,1,1,2-Tetrachloroethane	49.9	1.0	"	50.0		99.8	86-116			
Tetrachloroethene	48.2	1.0	"	50.0		96.5	74-121			
Toluene	47.4	1.0	"	50.0		94.9	51-138			
1,2,3-Trichlorobenzene	50.8	1.0	"	50.0		102	81-122			
1,2,4-Trichlorobenzene	49.6	1.0	"	50.0		99.1	87-115			
1,1,2-Trichloroethane	49.3	1.0	"	50.0		98.6	77-129			
1,1,1-Trichloroethane	48.0	1.0	"	50.0		96.1	75-120			
Trichloroethene	49.6	1.0	"	50.0		99.1	88-114			
Trichlorofluoromethane	41.3	1.0	"	50.0		82.6	65-129			
1,2,3-Trichloropropane	49.1	1.0	"	50.0		98.1	72-128			
1,3,5-Trimethylbenzene	47.5	1.0	"	50.0		95.0	86-110			
1,2,4-Trimethylbenzene	49.5	1.0	"	50.0		99.0	85-117			
Vinyl chloride	45.6	1.0	"	50.0		91.1	65-133			
m,p-Xylene	93.7	2.0	"	100		93.7	57-144			
o-Xylene	48.1	1.0	"	50.0		96.1	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		99.5	49.7-150			
Surrogate: Toluene-d8	13.5		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	50.1-150			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 2120104 - EPA 5030 Water MS

LCS Dup (2120104-BSD1)

Prepared & Analyzed: 12/01/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	46.0	1.0	ug/l	50.0	92.0	51-132	4.11	17		
Bromobenzene	48.9	1.0	"	50.0	97.8	90-110	0.367	10		
Bromochloromethane	48.1	5.0	"	50.0	96.3	83-120	2.79	19		
Bromodichloromethane	48.7	2.0	"	50.0	97.4	82-117	1.39	15		
Bromoform	46.8	1.0	"	50.0	93.6	76-112	1.66	12		
Bromomethane	51.7	1.0	"	50.0	103	60-144	14.0	24		
n-Butylbenzene	49.0	1.0	"	50.0	98.0	81-118	0.732	10		
sec-Butylbenzene	48.4	1.0	"	50.0	96.7	84-113	0.598	10		
tert-Butylbenzene	48.8	1.0	"	50.0	97.6	87-112	1.67	10		
Carbon tetrachloride	46.2	1.0	"	50.0	92.5	68-118	1.91	13		
Chlorobenzene	49.5	1.0	"	50.0	99.0	87-113	0.645	13		
Chloroethane	48.7	1.0	"	50.0	97.5	48-147	1.41	24		
Chloroform	48.7	5.0	"	50.0	97.4	85-116	3.31	19		
Chloromethane	51.7	1.0	"	50.0	103	60-133	1.48	23		
Chlorodibromomethane	48.3	1.0	"	50.0	96.6	80-117	0.0414	12		
2-Chlorotoluene	48.9	1.0	"	50.0	97.8	84-117	2.28	10		
4-Chlorotoluene	50.0	1.0	"	50.0	100	86-114	0.0799	10		
1,2-Dibromo-3-chloropropane	51.8	1.0	"	50.0	104	62-126	6.34	10		
1,2-Dibromoethane (EDB)	50.7	1.0	"	50.0	101	84-119	0.629	12		
Dibromomethane	50.0	1.0	"	50.0	100	83-118	0.281	14		
1,2-Dichlorobenzene	49.7	1.0	"	50.0	99.4	90-110	0.901	10		
1,3-Dichlorobenzene	49.8	1.0	"	50.0	99.5	90-110	0.880	10		
1,4-Dichlorobenzene	49.3	1.0	"	50.0	98.6	87-110	0.101	10		
Dichlorodifluoromethane	44.0	1.0	"	50.0	88.1	60-115	1.06	21		
1,1-Dichloroethane	46.3	1.0	"	50.0	92.6	71-131	0.345	20		
1,2-Dichloroethane (EDC)	48.9	1.0	"	50.0	97.8	84-117	3.32	12		
1,1-Dichloroethene	46.0	1.0	"	50.0	92.0	69-129	1.20	22		
cis-1,2-Dichloroethene	50.1	1.0	"	50.0	100	81-124	1.19	20		
trans-1,2-Dichloroethene	46.4	1.0	"	50.0	92.8	66-140	1.90	22		
1,2-Dichloropropane	48.2	1.0	"	50.0	96.4	86-114	1.63	14		
1,3-Dichloropropane	50.5	1.0	"	50.0	101	83-122	0.966	12		
2,2-Dichloropropane	41.7	1.0	"	50.0	83.5	42-130	1.59	19		
1,1-Dichloropropene	46.0	1.0	"	50.0	92.0	75-117	3.17	14		
cis-1,3-Dichloropropene	47.3	1.0	"	50.0	94.5	72-125	2.94	21		
trans-1,3-Dichloropropene	47.4	1.0	"	50.0	94.7	73-120	3.81	16		
Ethylbenzene	48.9	1.0	"	50.0	97.7	58-146	1.09	16		
Hexachlorobutadiene	50.7	1.0	"	50.0	101	78-118	1.11	10		
Tert-amyl methyl ether	48.7	1.0	"	49.6	98.2	72-128	1.31	18		

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

LCS Dup (2120104-BSD1)

Prepared & Analyzed: 12/01/12

Ethyl tert-butyl ether	47.6	10	ug/l	50.1	95.0	74-131	0.0841	20	
Tert-butyl alcohol	226	20	"	250	90.4	66-115	1.65	19	
Isopropylbenzene	48.4	1.0	"	50.0	96.8	77-115	0.290	14	
Di-isopropyl ether	46.8	5.0	"	49.9	93.7	77-119	0.0641	20	
p-Isopropyltoluene	49.6	1.0	"	50.0	99.3	84-110	0.643	11	
Methylene Chloride	47.8	5.0	"	50.0	95.6	36-156	0.503	32	
Methyl tert-butyl ether	47.4	5.0	"	50.1	94.7	71-130	3.00	22	
Naphthalene	42.2	1.0	"	50.0	84.4	76-128	2.01	10	
n-Propylbenzene	47.8	1.0	"	50.0	95.5	82-117	2.11	10	
Styrene	50.0	1.0	"	50.0	100	82-123	0.240	14	
1,1,2,2-Tetrachloroethane	50.7	1.0	"	50.0	101	66-126	2.86	10	
1,1,1,2-Tetrachloroethane	49.9	1.0	"	50.0	99.9	86-116	0.100	14	
Tetrachloroethane	47.6	1.0	"	50.0	95.2	74-121	1.36	14	
Toluene	45.8	1.0	"	50.0	91.6	51-138	3.56	17	
1,2,3-Trichlorobenzene	52.6	1.0	"	50.0	105	81-122	3.33	10	
1,2,4-Trichlorobenzene	50.2	1.0	"	50.0	100	87-115	1.28	10	
1,1,2-Trichloroethane	47.4	1.0	"	50.0	94.9	77-129	3.84	17	
1,1,1-Trichloroethane	47.6	1.0	"	50.0	95.3	75-120	0.857	16	
Trichloroethene	46.5	1.0	"	50.0	93.1	88-114	6.29	14	
Trichlorofluoromethane	43.1	1.0	"	50.0	86.2	65-129	4.22	22	
1,2,3-Trichloropropane	48.5	1.0	"	50.0	97.0	72-128	1.15	10	
1,3,5-Trimethylbenzene	46.6	1.0	"	50.0	93.1	86-110	1.94	10	
1,2,4-Trimethylbenzene	48.6	1.0	"	50.0	97.1	85-117	1.90	10	
Vinyl chloride	45.9	1.0	"	50.0	91.8	65-133	0.722	21	
m,p-Xylene	95.5	2.0	"	100	95.5	57-144	1.92	16	
o-Xylene	48.6	1.0	"	50.0	97.1	53-146	1.01	15	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2	99.3	49.7-150			
Surrogate: Toluene-d8	12.8		"	13.3	96.4	51-150			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	100	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

Matrix Spike (2120104-MS1)

Source: R211152-01

Prepared & Analyzed: 12/01/12

Benzene	47.6	1.0	ug/l	50.0	ND	95.3	34-141			
Bromobenzene	48.7	1.0	"	50.0	ND	97.4	66-131			
Bromochloromethane	48.8	5.0	"	50.0	ND	97.6	74-125			
Bromodichloromethane	49.8	2.0	"	50.0	ND	99.6	64-131			
Bromoform	47.4	1.0	"	50.0	ND	94.7	63-122			
Bromomethane	49.7	1.0	"	50.0	ND	99.5	46-155			
n-Butylbenzene	48.9	1.0	"	50.0	ND	97.8	47-142			
sec-Butylbenzene	48.1	1.0	"	50.0	ND	96.1	52-135			
tert-Butylbenzene	48.9	1.0	"	50.0	ND	97.8	53-137			
Carbon tetrachloride	47.8	1.0	"	50.0	ND	95.6	62-121			
Chlorobenzene	49.4	1.0	"	50.0	ND	98.8	64-131			
Chloroethane	48.1	1.0	"	50.0	ND	96.2	60-130			
Chloroform	50.4	5.0	"	50.0	ND	101	70-130			
Chloromethane	51.6	1.0	"	50.0	ND	103	62-130			
Chlorodibromomethane	48.6	1.0	"	50.0	ND	97.1	60-134			
2-Chlorotoluene	48.5	1.0	"	50.0	ND	97.0	58-138			
4-Chlorotoluene	49.7	1.0	"	50.0	ND	99.3	62-131			
1,2-Dibromo-3-chloropropane	50.7	1.0	"	50.0	ND	101	63-125			
1,2-Dibromoethane (EDB)	50.6	1.0	"	50.0	ND	101	66-131			
Dibromomethane	51.5	1.0	"	50.0	ND	103	70-127			
1,2-Dichlorobenzene	50.3	1.0	"	50.0	ND	101	62-134			
1,3-Dichlorobenzene	49.0	1.0	"	50.0	ND	98.1	60-133			
1,4-Dichlorobenzene	48.4	1.0	"	50.0	ND	96.8	63-127			
Dichlorodifluoromethane	49.1	1.0	"	50.0	ND	98.2	24-136			
1,1-Dichloroethane	46.6	1.0	"	50.0	ND	93.3	73-124			
1,2-Dichloroethane (EDC)	51.1	1.0	"	50.0	ND	102	75-122			
1,1-Dichloroethene	45.8	1.0	"	50.0	ND	91.7	70-123			
cis-1,2-Dichloroethene	51.4	1.0	"	50.0	ND	103	72-129			
trans-1,2-Dichloroethene	47.4	1.0	"	50.0	ND	94.9	76-126			
1,2-Dichloropropane	49.8	1.0	"	50.0	ND	99.5	68-129			
1,3-Dichloropropane	50.7	1.0	"	50.0	ND	101	69-130			
2,2-Dichloropropane	41.8	1.0	"	50.0	ND	83.5	37-126			
1,1-Dichloropropene	47.6	1.0	"	50.0	ND	95.3	61-125			
cis-1,3-Dichloropropene	49.2	1.0	"	50.0	ND	98.3	59-127			
trans-1,3-Dichloropropene	50.2	1.0	"	50.0	ND	100	59-126			
Ethylbenzene	48.4	1.0	"	50.0	ND	96.9	29-160			
Hexachlorobutadiene	50.4	1.0	"	50.0	ND	101	41-141			
Tert-amyl methyl ether	49.3	1.0	"	49.6	ND	99.5	61-132			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

Matrix Spike (2120104-MS1)

Source: R211152-01

Prepared & Analyzed: 12/01/12

Ethyl tert-butyl ether	47.4	10	ug/l	50.1	ND	94.7	65-130			
Tert-butyl alcohol	240	20	"	250	ND	95.9	60-130			
Di-isopropyl ether	47.2	5.0	"	49.9	ND	94.6	73-128			
Isopropylbenzene	48.1	1.0	"	50.0	ND	96.1	44-143			
p-Isopropyltoluene	49.2	1.0	"	50.0	ND	98.4	47-137			
Methylene Chloride	48.0	5.0	"	50.0	ND	96.0	42-129			
Methyl tert-butyl ether	47.7	5.0	"	50.1	ND	95.2	70-124			
Naphthalene	42.6	1.0	"	50.0	ND	85.3	73-132			
n-Propylbenzene	48.2	1.0	"	50.0	ND	96.3	61-129			
Styrene	49.3	1.0	"	50.0	ND	98.6	36-146			
1,1,2,2-Tetrachloroethane	51.1	1.0	"	50.0	ND	102	71-140			
1,1,1,2-Tetrachloroethane	48.9	1.0	"	50.0	ND	97.8	59-137			
Tetrachloroethene	47.3	1.0	"	50.0	ND	94.6	49-137			
Toluene	47.3	1.0	"	50.0	ND	94.7	27-151			
1,2,3-Trichlorobenzene	51.2	1.0	"	50.0	ND	102	61-137			
1,2,4-Trichlorobenzene	49.6	1.0	"	50.0	ND	99.3	55-141			
1,1,2-Trichloroethane	50.6	1.0	"	50.0	ND	101	67-134			
1,1,1-Trichloroethane	48.2	1.0	"	50.0	ND	96.4	66-128			
Trichloroethene	49.1	1.0	"	50.0	ND	98.1	65-119			
Trichlorofluoromethane	42.4	1.0	"	50.0	ND	84.8	65-121			
1,2,3-Trichloropropane	50.3	1.0	"	50.0	ND	101	69-125			
1,3,5-Trimethylbenzene	46.6	1.0	"	50.0	ND	93.3	50-138			
1,2,4-Trimethylbenzene	48.8	1.0	"	50.0	ND	97.6	54-137			
Vinyl chloride	46.2	1.0	"	50.0	ND	92.3	71-124			
m,p-Xylene	94.8	2.0	"	100	ND	94.8	20-166			
o-Xylene	47.7	1.0	"	50.0	ND	95.4	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		104	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	50.1-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

Matrix Spike Dup (2120104-MSD1)	Source: R211152-01			Prepared & Analyzed: 12/01/12						
Benzene	50.8	1.0	ug/l	50.0	ND	102	34-141	6.48	32	
Bromobenzene	49.6	1.0	"	50.0	ND	99.2	66-131	1.81	30	
Bromochloromethane	55.3	5.0	"	50.0	ND	111	74-125	12.4	30	
Bromodichloromethane	53.8	2.0	"	50.0	ND	108	64-131	7.72	30	
Bromoform	49.3	1.0	"	50.0	ND	98.7	63-122	4.07	27	
Bromomethane	51.1	1.0	"	50.0	ND	102	46-155	2.74	95	
n-Butylbenzene	51.1	1.0	"	50.0	ND	102	47-142	4.42	33	
sec-Butylbenzene	50.2	1.0	"	50.0	ND	100	52-135	4.35	33	
tert-Butylbenzene	50.4	1.0	"	50.0	ND	101	53-137	3.00	38	
Carbon tetrachloride	49.7	1.0	"	50.0	ND	99.4	62-121	3.84	21	
Chlorobenzene	52.5	1.0	"	50.0	ND	105	64-131	6.01	30	
Chloroethane	57.0	1.0	"	50.0	ND	114	60-130	17.0	29	
Chloroform	55.8	5.0	"	50.0	ND	112	70-130	10.2	32	
Chloromethane	59.0	1.0	"	50.0	ND	118	62-130	13.4	24	
Chlorodibromomethane	51.7	1.0	"	50.0	ND	103	60-134	6.19	30	
2-Chlorotoluene	50.9	1.0	"	50.0	ND	102	58-138	4.79	34	
4-Chlorotoluene	51.0	1.0	"	50.0	ND	102	62-131	2.56	29	
1,2-Dibromo-3-chloropropane	53.3	1.0	"	50.0	ND	107	63-125	4.96	34	
1,2-Dibromoethane (EDB)	54.7	1.0	"	50.0	ND	109	66-131	7.67	31	
Dibromomethane	55.0	1.0	"	50.0	ND	110	70-127	6.59	28	
1,2-Dichlorobenzene	52.3	1.0	"	50.0	ND	105	62-134	3.90	29	
1,3-Dichlorobenzene	51.2	1.0	"	50.0	ND	102	60-133	4.35	30	
1,4-Dichlorobenzene	51.0	1.0	"	50.0	ND	102	63-127	5.25	31	
Dichlorodifluoromethane	49.1	1.0	"	50.0	ND	98.3	24-136	0.102	31	
1,1-Dichloroethane	52.1	1.0	"	50.0	ND	104	73-124	11.1	33	
1,2-Dichloroethane (EDC)	54.9	1.0	"	50.0	ND	110	75-122	7.09	19	
1,1-Dichloroethene	49.2	1.0	"	50.0	ND	98.5	70-123	7.19	32	
cis-1,2-Dichloroethene	56.4	1.0	"	50.0	ND	113	72-129	9.20	31	
trans-1,2-Dichloroethene	53.0	1.0	"	50.0	ND	106	76-126	11.1	31	
1,2-Dichloropropane	52.6	1.0	"	50.0	ND	105	68-129	5.53	29	
1,3-Dichloropropane	54.5	1.0	"	50.0	ND	109	69-130	7.22	31	
2,2-Dichloropropane	45.2	1.0	"	50.0	ND	90.5	37-126	8.00	33	
1,1-Dichloropropene	49.8	1.0	"	50.0	ND	99.6	61-125	4.41	28	
cis-1,3-Dichloropropene	51.6	1.0	"	50.0	ND	103	59-127	4.81	28	
trans-1,3-Dichloropropene	53.8	1.0	"	50.0	ND	108	59-126	6.92	28	
Ethylbenzene	51.2	1.0	"	50.0	ND	102	29-160	5.48	50	
Hexachlorobutadiene	53.2	1.0	"	50.0	ND	106	41-141	5.48	35	
Tert-amyl methyl ether	55.0	1.0	"	49.6	ND	111	61-132	10.9	34	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120104 - EPA 5030 Water MS

Matrix Spike Dup (2120104-MSD1)	Source: R211152-01			Prepared & Analyzed: 12/01/12						
Ethyl tert-butyl ether	54.1	10	ug/l	50.1	ND	108	65-130	13.0	38	
Tert-butyl alcohol	234	20	"	250	ND	93.6	60-130	2.40	31	
Isopropylbenzene	51.6	1.0	"	50.0	ND	103	44-143	7.01	35	
Di-isopropyl ether	52.9	5.0	"	49.9	ND	106	73-128	11.4	25	
p-Isopropyltoluene	51.0	1.0	"	50.0	ND	102	47-137	3.59	38	
Methylene Chloride	54.8	5.0	"	50.0	ND	110	42-129	13.2	31	
Methyl tert-butyl ether	53.2	5.0	"	50.1	ND	106	70-124	11.0	35	
Naphthalene	45.1	1.0	"	50.0	ND	90.3	73-132	5.67	23	
n-Propylbenzene	49.3	1.0	"	50.0	ND	98.6	61-129	2.30	35	
Styrene	53.1	1.0	"	50.0	ND	106	36-146	7.42	33	
1,1,2,2-Tetrachloroethane	52.3	1.0	"	50.0	ND	105	71-140	2.38	32	
1,1,1,2-Tetrachloroethane	52.4	1.0	"	50.0	ND	105	59-137	6.81	32	
Tetrachloroethane	49.8	1.0	"	50.0	ND	99.6	49-137	5.19	32	
Toluene	50.0	1.0	"	50.0	ND	100	27-151	5.47	25	
1,2,3-Trichlorobenzene	56.0	1.0	"	50.0	ND	112	61-137	8.83	27	
1,2,4-Trichlorobenzene	52.9	1.0	"	50.0	ND	106	55-141	6.40	28	
1,1,2-Trichloroethane	53.3	1.0	"	50.0	ND	107	67-134	5.24	29	
1,1,1-Trichloroethane	53.2	1.0	"	50.0	ND	106	66-128	9.80	31	
Trichloroethene	51.3	1.0	"	50.0	ND	103	65-119	4.48	30	
Trichlorofluoromethane	47.5	1.0	"	50.0	ND	95.0	65-121	11.3	30	
1,2,3-Trichloropropane	52.0	1.0	"	50.0	ND	104	69-125	3.38	33	
1,3,5-Trimethylbenzene	48.4	1.0	"	50.0	ND	96.7	50-138	3.62	34	
1,2,4-Trimethylbenzene	50.4	1.0	"	50.0	ND	101	54-137	3.17	34	
Vinyl chloride	51.2	1.0	"	50.0	ND	102	71-124	10.5	26	
m,p-Xylene	99.8	2.0	"	100	ND	99.8	20-166	5.16	36	
o-Xylene	51.5	1.0	"	50.0	ND	103	33-159	7.60	26	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.2</i>		<i>109</i>	<i>49.7-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.1</i>	<i>51-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>50.1-150</i>			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120321 - EPA 3510B

Blank (2120321-BLK1)

Prepared: 12/03/12 Analyzed: 12/04/12

Acenaphthene	ND	10.0	ug/l							
Acenaphthylene	ND	10.0	"							
Anthracene	ND	10.0	"							
Benzo (a) anthracene	ND	10.0	"							
Benzo (b) fluoranthene	ND	10.0	"							
Benzo (k) fluoranthene	ND	10.0	"							
Benzo (g,h,i) perylene	ND	10.0	"							
Benzo (a) pyrene	ND	10.0	"							
Chrysene	ND	10.0	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Pyrene	ND	10.0	"							
<i>Surrogate: Nitrobenzene-d5</i>	<i>81.7</i>		<i>"</i>	<i>100</i>		<i>81.7</i>	<i>30-138</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>81.2</i>		<i>"</i>	<i>100</i>		<i>81.2</i>	<i>30-150</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>56.1</i>		<i>"</i>	<i>100</i>		<i>56.1</i>	<i>30-149</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>98.1</i>		<i>"</i>	<i>98.6</i>		<i>99.5</i>	<i>30-144</i>			

LCS (2120321-BS1)

Prepared: 12/03/12 Analyzed: 12/04/12

Acenaphthene	74.9	10.0	ug/l	100	74.9	23-159
Acenaphthylene	79.1	10.0	"	100	79.1	74-110
Anthracene	74.3	10.0	"	100	74.3	62-110
Benzo (a) anthracene	79.7	10.0	"	100	79.7	10-241
Benzo (b) fluoranthene	140	10.0	"	100	140	10-178
Benzo (k) fluoranthene	157	10.0	"	100	157	10-192
Benzo (g,h,i) perylene	116	10.0	"	100	116	10-192
Benzo (a) pyrene	146	10.0	"	100	146	10-189
Chrysene	86.2	10.0	"	100	86.2	10-201
Dibenz (a,h) anthracene	121	10.0	"	100	121	10-190
Fluoranthene	77.4	10.0	"	100	77.4	66-110
Fluorene	77.6	10.0	"	100	77.6	71-110
Indeno (1,2,3-cd) pyrene	146	10.0	"	100	146	10-192
Naphthalene	73.9	10.0	"	100	73.9	70-110
Phenanthrene	78.1	10.0	"	100	78.1	71-110
Pyrene	78.5	10.0	"	100	78.5	10-194

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120321 - EPA 3510B

LCS (2120321-BS1)

Prepared: 12/03/12 Analyzed: 12/04/12

Surrogate: Nitrobenzene-d5	84.3		ug/l	100		84.3	30-138			
Surrogate: 2-Fluorobiphenyl	87.9		"	100		87.9	30-150			
Surrogate: 2,4,6-Tribromophenol	36.8		"	100		36.8	30-149			
Surrogate: Terphenyl-dl4	91.2		"	98.6		92.5	30-144			

LCS Dup (2120321-BS1)

Prepared: 12/03/12 Analyzed: 12/04/12

Acenaphthene	73.8	10.0	ug/l	100		73.8	23-159	1.59	10	
Acenaphthylene	77.3	10.0	"	100		77.3	74-110	2.22	10	
Anthracene	74.4	10.0	"	100		74.4	62-110	0.108	10	
Benzo (a) anthracene	74.3	10.0	"	100		74.3	10-241	7.06	12	
Benzo (b) fluoranthene	106	10.0	"	100		106	10-178	27.8	27	
Benzo (k) fluoranthene	132	10.0	"	100		132	10-192	17.1	15	
Benzo (g,h,i) perylene	90.7	10.0	"	100		90.7	10-192	24.1	23	
Benzo (a) pyrene	121	10.0	"	100		121	10-189	18.5	13	
Chrysene	75.5	10.0	"	100		75.5	10-201	13.3	12	
Dibenz (a,h) anthracene	102	10.0	"	100		102	10-190	17.1	16	
Fluoranthene	77.4	10.0	"	100		77.4	66-110	0.0775	10	
Fluorene	75.1	10.0	"	100		75.1	71-110	3.27	10	
Indeno (1,2,3-cd) pyrene	104	10.0	"	100		104	10-192	33.1	17	
Naphthalene	72.4	10.0	"	100		72.4	70-110	2.05	10	
Phenanthrene	74.5	10.0	"	100		74.5	71-110	4.61	10	
Pyrene	71.4	10.0	"	100		71.4	10-194	9.37	21	
Surrogate: Nitrobenzene-d5	82.8		"	100		82.8	30-138			
Surrogate: 2-Fluorobiphenyl	83.5		"	100		83.5	30-150			
Surrogate: 2,4,6-Tribromophenol	46.6		"	100		46.6	30-149			
Surrogate: Terphenyl-dl4	80.8		"	98.6		81.9	30-144			

Matrix Spike (2120321-MS1)

Source: R212002-04

Prepared: 12/03/12 Analyzed: 12/04/12

Acenaphthene	296	10.0	ug/l	100	444	NR	44-128			QM-01
Acenaphthylene	147	10.0	"	100	92.8	53.8	67-110			QM-01
Anthracene	100	10.0	"	100	91.0	9.06	46-119			QM-01
Benzo (a) anthracene	78.4	10.0	"	100	52.7	25.6	10-197			
Benzo (b) fluoranthene	124	10.0	"	100	28.6	95.7	10-149			
Benzo (k) fluoranthene	129	10.0	"	100	38.6	90.6	10-149			
Benzo (g,h,i) perylene	82.9	10.0	"	100	14.4	68.5	10-167			
Benzo (a) pyrene	137	10.0	"	100	71.9	64.9	10-158			
Chrysene	80.5	10.0	"	100	49.7	30.7	10-192			
Dibenz (a,h) anthracene	93.4	10.0	"	100	5.62	87.8	10-140			

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17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120321 - EPA 3510B

Matrix Spike (2120321-MS1)	Source: R212002-04			Prepared: 12/03/12		Analyzed: 12/04/12					
Fluoranthene	102	10.0	ug/l	100	105	NR	68-110				QM-01
Fluorene	196	10.0	"	100	207	NR	70-110				QM-01
Indeno (1,2,3-cd) pyrene	99.4	10.0	"	100	12.2	87.2	10-165				
Naphthalene	2850	10.0	"	100	3950	NR	68-110				QM-4X
Phenanthrene	233	10.0	"	100	494	NR	51.7-112				QM-01
Pyrene	110	10.0	"	100	154	NR	30-150				QM-01
<i>Surrogate: Nitrobenzene-d5</i>	<i>120</i>		<i>"</i>	<i>100</i>		<i>120</i>	<i>30-138</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>79.2</i>		<i>"</i>	<i>100</i>		<i>79.2</i>	<i>30-150</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>78.8</i>		<i>"</i>	<i>100</i>		<i>78.8</i>	<i>30-149</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>74.8</i>		<i>"</i>	<i>98.6</i>		<i>75.8</i>	<i>30-144</i>				

Batch 2120507 - EPA 3510B

Blank (2120507-BLK1)				Prepared: 12/05/12		Analyzed: 12/06/12					
Acenaphthene	ND	10.0	ug/l								
Acenaphthylene	ND	10.0	"								
Anthracene	ND	10.0	"								
Benzo (a) anthracene	ND	10.0	"								
Benzo (b) fluoranthene	ND	10.0	"								
Benzo (k) fluoranthene	ND	10.0	"								
Benzo (g,h,i) perylene	ND	10.0	"								
Benzo (a) pyrene	ND	10.0	"								
Chrysene	ND	10.0	"								
Dibenz (a,h) anthracene	ND	10.0	"								
Fluoranthene	ND	10.0	"								
Fluorene	ND	10.0	"								
Indeno (1,2,3-cd) pyrene	ND	10.0	"								
Naphthalene	ND	10.0	"								
Phenanthrene	ND	10.0	"								
Pyrene	ND	10.0	"								
<i>Surrogate: Nitrobenzene-d5</i>	<i>81.3</i>		<i>"</i>	<i>100</i>		<i>81.3</i>	<i>30-138</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>69.8</i>		<i>"</i>	<i>100</i>		<i>69.8</i>	<i>30-150</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>32.2</i>		<i>"</i>	<i>100</i>		<i>32.2</i>	<i>30-149</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>107</i>		<i>"</i>	<i>98.6</i>		<i>109</i>	<i>30-144</i>				

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120507 - EPA 3510B

LCS (2120507-BS1)

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	127	10.0	ug/l	200		63.6	50-130			
Acenaphthylene	67.1	10.0	"	100		67.1	63-111			
Anthracene	66.1	10.0	"	100		66.1	55-119			
Benzo (a) anthracene	76.5	10.0	"	100		76.5	36-145			
Benzo (b) fluoranthene	101	10.0	"	100		101	38-132			
Benzo (k) fluoranthene	100	10.0	"	100		100	30-155			
Benzo (g,h,i) perylene	66.8	10.0	"	100		66.8	28-138			
Benzo (a) pyrene	86.5	10.0	"	100		86.5	27-155			
Chrysene	78.1	10.0	"	100		78.1	46-123			
Dibenz (a,h) anthracene	76.9	10.0	"	100		76.9	37-118			
Fluoranthene	72.2	10.0	"	100		72.2	52-127			
Fluorene	63.0	10.0	"	100		63.0	60-113			
Indeno (1,2,3-cd) pyrene	75.1	10.0	"	100		75.1	20-154			
Naphthalene	64.8	10.0	"	100		64.8	62-110			
Phenanthrene	68.1	10.0	"	100		68.1	59-118			
Pyrene	157	10.0	"	199		78.9	32-153			
<i>Surrogate: Nitrobenzene-d5</i>	<i>77.9</i>		<i>"</i>	<i>100</i>		<i>77.9</i>	<i>30-138</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>70.6</i>		<i>"</i>	<i>100</i>		<i>70.6</i>	<i>30-150</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>63.2</i>		<i>"</i>	<i>100</i>		<i>63.2</i>	<i>30-149</i>			
<i>Surrogate: Terphenyl-dl4</i>	<i>87.6</i>		<i>"</i>	<i>98.6</i>		<i>88.8</i>	<i>30-144</i>			

LCS Dup (2120507-BSD1)

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	130	10.0	ug/l	200		65.2	50-130	2.50	13.4	
Acenaphthylene	68.9	10.0	"	100		68.9	63-111	2.56	8	
Anthracene	66.8	10.0	"	100		66.8	55-119	1.02	10.7	
Benzo (a) anthracene	67.8	10.0	"	100		67.8	36-145	12.0	18	
Benzo (b) fluoranthene	76.4	10.0	"	100		76.4	38-132	27.8	27	
Benzo (k) fluoranthene	76.0	10.0	"	100		76.0	30-155	27.4	15	
Benzo (g,h,i) perylene	52.0	10.0	"	100		52.0	28-138	24.9	23	
Benzo (a) pyrene	76.3	10.0	"	100		76.3	27-155	12.5	13	
Chrysene	67.1	10.0	"	100		67.1	46-123	15.1	12	
Dibenz (a,h) anthracene	62.5	10.0	"	100		62.5	37-118	20.7	16	
Fluoranthene	73.7	10.0	"	100		73.7	52-127	2.06	10	
Fluorene	63.9	10.0	"	100		63.9	60-113	1.45	10	
Indeno (1,2,3-cd) pyrene	69.6	10.0	"	100		69.6	20-154	7.57	17	
Naphthalene	65.6	10.0	"	100		65.6	62-110	1.20	10	
Phenanthrene	69.6	10.0	"	100		69.6	59-118	2.18	10	
Pyrene	130	10.0	"	199		65.3	32-153	18.8	21	

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USA Environmental CP
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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120507 - EPA 3510B

LCS Dup (2120507-BSD1)

Prepared: 12/05/12 Analyzed: 12/06/12

Surrogate: Nitrobenzene-d5	81.5		ug/l	100		81.5	30-138			
Surrogate: 2-Fluorobiphenyl	68.8		"	100		68.8	30-150			
Surrogate: 2,4,6-Tribromophenol	71.4		"	100		71.4	30-149			
Surrogate: Terphenyl-dl4	72.5		"	98.6		73.5	30-144			

Matrix Spike (2120507-MS1)

Source: R212001-04

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	114	10.0	ug/l	100	52.0	61.9	43-123			
Acenaphthylene	130	10.0	"	100	63.8	66.0	42-113			
Anthracene	76.5	10.0	"	100	12.1	64.4	46-114			
Benzo (a) anthracene	65.5	10.0	"	100	0.780	64.8	29-134			
Benzo (b) fluoranthene	74.0	10.0	"	100	ND	74.0	14-115			
Benzo (k) fluoranthene	67.9	10.0	"	100	ND	67.9	34-108			
Benzo (g,h,i) perylene	49.5	10.0	"	100	ND	49.5	27-110			
Benzo (a) pyrene	68.6	10.0	"	100	ND	68.6	32-127			
Chrysene	64.9	10.0	"	100	0.580	64.3	33-115			
Dibenz (a,h) anthracene	58.4	10.0	"	100	ND	58.4	29-98			
Fluoranthene	78.4	10.0	"	100	6.88	71.5	33-142			
Fluorene	102	10.0	"	100	42.7	58.9	48-112			
Indeno (1,2,3-cd) pyrene	64.0	10.0	"	100	ND	64.0	28-118			
Naphthalene	260	10.0	"	100	184	75.9	51-112			
Phenanthrene	128	10.0	"	100	63.8	64.2	32-135			
Pyrene	77.2	10.0	"	100	7.42	69.7	35-125			
Surrogate: Nitrobenzene-d5	78.8		"	100		78.8	30-138			
Surrogate: 2-Fluorobiphenyl	76.1		"	100		76.1	30-150			
Surrogate: 2,4,6-Tribromophenol	68.7		"	100		68.7	30-149			
Surrogate: Terphenyl-dl4	76.7		"	98.6		77.8	30-144			

Matrix Spike (2120507-MS2)

Source: R211230-02

Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	136	10.0	ug/l	200	ND	67.8	43-123			
Acenaphthylene	72.3	10.0	"	100	ND	72.3	42-113			
Anthracene	71.1	10.0	"	100	ND	71.1	46-114			
Benzo (a) anthracene	68.2	10.0	"	100	ND	68.2	29-134			
Benzo (b) fluoranthene	79.3	10.0	"	100	ND	79.3	14-115			
Benzo (k) fluoranthene	74.1	10.0	"	100	ND	74.1	34-108			
Benzo (g,h,i) perylene	50.5	10.0	"	100	ND	50.5	27-110			
Benzo (a) pyrene	72.6	10.0	"	100	ND	72.6	32-127			
Chrysene	72.0	10.0	"	100	ND	72.0	33-115			
Dibenz (a,h) anthracene	60.9	10.0	"	100	ND	60.9	29-98			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120507 - EPA 3510B

Matrix Spike (2120507-MS2)

Source: R211230-02 Prepared: 12/05/12 Analyzed: 12/06/12

Fluoranthene	76.5	10.0	ug/l	100	ND	76.5	33-142			
Fluorene	66.8	10.0	"	100	ND	66.8	48-112			
Indeno (1,2,3-cd) pyrene	66.3	10.0	"	100	ND	66.3	28-118			
Naphthalene	69.4	10.0	"	100	ND	69.4	51-112			
Phenanthrene	71.5	10.0	"	100	ND	71.5	32-135			
Pyrene	150	10.0	"	199	ND	75.4	35-125			
<i>Surrogate: Nitrobenzene-d5</i>	83.9		"	100		83.9	30-138			
<i>Surrogate: 2-Fluorobiphenyl</i>	79.5		"	100		79.5	30-150			
<i>Surrogate: 2,4,6-Tribromophenol</i>	78.9		"	100		78.9	30-149			
<i>Surrogate: Terphenyl-dl4</i>	82.5		"	98.6		83.7	30-144			

Matrix Spike Dup (2120507-MSD1)

Source: R212001-04 Prepared: 12/05/12 Analyzed: 12/06/12

Acenaphthene	113	10.0	ug/l	100	52.0	60.5	43-123	1.20	17.3	
Acenaphthylene	129	10.0	"	100	63.8	65.1	42-113	0.680	18.4	
Anthracene	78.2	10.0	"	100	12.1	66.1	46-114	2.17	53.7	
Benzo (a) anthracene	68.0	10.0	"	100	0.780	67.3	29-134	3.74	15.1	
Benzo (b) fluoranthene	71.0	10.0	"	100	ND	71.0	14-115	4.05	12.9	
Benzo (k) fluoranthene	68.8	10.0	"	100	ND	68.8	34-108	1.32	14.2	
Benzo (g,h,i) perylene	49.9	10.0	"	100	ND	49.9	27-110	0.845	11	
Benzo (a) pyrene	72.9	10.0	"	100	ND	72.9	32-127	6.02	11.2	
Chrysene	66.2	10.0	"	100	0.580	65.6	33-115	2.01	11	
Dibenz (a,h) anthracene	60.2	10.0	"	100	ND	60.2	29-98	2.93	18.1	
Fluoranthene	80.2	10.0	"	100	6.88	73.3	33-142	2.27	12.4	
Fluorene	102	10.0	"	100	42.7	59.3	48-112	0.393	16.9	
Indeno (1,2,3-cd) pyrene	65.8	10.0	"	100	ND	65.8	28-118	2.71	11	
Naphthalene	247	10.0	"	100	184	63.4	51-112	4.92	19.6	
Phenanthrene	132	10.0	"	100	63.8	67.9	32-135	2.85	57.7	
Pyrene	82.1	10.0	"	100	7.42	74.6	35-125	6.15	14.2	
<i>Surrogate: Nitrobenzene-d5</i>	77.5		"	100		77.5	30-138			
<i>Surrogate: 2-Fluorobiphenyl</i>	74.5		"	100		74.5	30-150			
<i>Surrogate: 2,4,6-Tribromophenol</i>	72.9		"	100		72.9	30-149			
<i>Surrogate: Terphenyl-dl4</i>	74.5		"	98.6		75.5	30-144			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/10/12 09:58

Notes and Definitions

- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 12, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 12/05/12 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or similar initials, with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury For Joseph J Egry IV
Laboratory Director



USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COB-EX5-120412	R212022-01	Soil	12/04/12 12:25	12/05/12 16:40
COB-EX6-120512	R212022-02	Soil	12/05/12 10:10	12/05/12 16:40

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

COB-EX5-120412
R212022-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	460	50	mg/kg	1	2121011	12/10/12	12/11/12	8015 Full Carbon Chain	

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	2.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/12/12 18:25

COB-EX5-120412
R212022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	5.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	15	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	360	10	"	"	"	"	"	"
n-Propylbenzene	ND	5.0	"	"	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	ND	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

COB-EX5-120412
R212022-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	5.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"
Vinyl chloride	ND	5.0	"	"	"	"	"	"
m,p-Xylene	ND	10	"	"	"	"	"	"
o-Xylene	6.8	5.0	"	"	"	"	"	"
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.9 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	3300	ug/kg	1	2120618	12/06/12	12/11/12	EPA 8270D	
Acenaphthylene	5300	3300	"	"	"	"	"	"	
Anthracene	ND	3300	"	"	"	"	"	"	
Benzo (a) anthracene	12000	3300	"	"	"	"	"	"	
Benzo (b) fluoranthene	12000	3300	"	"	"	"	"	"	
Benzo (k) fluoranthene	13000	3300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	4200	3300	"	"	"	"	"	"	
Benzo (a) pyrene	15000	3300	"	"	"	"	"	"	
Chrysene	13000	3300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	3300	"	"	"	"	"	"	
Fluoranthene	9800	3300	"	"	"	"	"	"	
Fluorene	ND	3300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	5900	3300	"	"	"	"	"	"	
Naphthalene	8800	3300	"	"	"	"	"	"	
Phenanthrene	ND	3300	"	"	"	"	"	"	
Pyrene	25000	3300	"	"	"	"	"	"	

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/12/12 18:25

COB-EX5-120412
R212022-01 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/04/12 12:25

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		85.4 %	-13.6-167		2120618	12/06/12	12/11/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		82.2 %	-7.09-147		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		63.4 %	-42.1-143		"	"	"	"	
Surrogate: Terphenyl-d14		112 %	-19.4-142		"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

COB-EX6-120512
R212022-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/05/12 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	11000	50	mg/kg	1	2121011	12/10/12	12/11/12	8015 Full Carbon Chain	

Date Sampled: 12/05/12 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		101 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/05/12 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	180	2.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	15	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Chlorodibromomethane	ND	10	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	15	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	

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USA Environmental CP
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Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

COB-EX6-120512
R212022-02 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

1,2-Dichlorobenzene	ND	5.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"
1,2-Dichloroethane (EDC)	ND	5.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	20	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	10	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	15	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	10	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Ethylbenzene	180	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	52	5.0	"	"	"	"	"	"
p-Isopropyltoluene	250	10	"	"	"	"	"	"
Methylene Chloride	ND	15	"	"	"	"	"	"
Naphthalene	960000	20000	"	2000	"	"	"	"
n-Propylbenzene	ND	5.0	"	1	"	"	"	"
Styrene	ND	10	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"
Tetrachloroethene	ND	5.0	"	"	"	"	"	"
Toluene	240	5.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"
Trichloroethene	ND	5.0	"	"	"	"	"	"

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

COB-EX6-120512
R212022-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Trichlorofluoromethane	ND	5.0	ug/kg	1	2120611	12/06/12	12/07/12	EPA 8260B
1,2,3-Trichloropropane	ND	10	"	"	"	"	"	"
1,3,5-Trimethylbenzene	60	5.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	12000	500	"	100	"	"	"	"
Vinyl chloride	ND	5.0	"	1	"	"	"	"
m,p-Xylene	18000	1000	"	100	"	"	"	"
o-Xylene	13000	500	"	"	"	"	"	"
Gasoline Range Hydrocarbons	3500000	1000000	"	2000	"	"	"	"

Date Sampled: 12/05/12 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173	"	"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167	"	"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: 12/05/12 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	140000	33000	ug/kg	1	2120618	12/06/12	12/11/12	EPA 8270D	
Acenaphthylene	440000	33000	"	"	"	"	"	"	
Anthracene	190000	33000	"	"	"	"	"	"	
Benzo (a) anthracene	180000	33000	"	"	"	"	"	"	
Benzo (b) fluoranthene	68000	33000	"	"	"	"	"	"	
Benzo (k) fluoranthene	110000	33000	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	33000	"	"	"	"	"	"	
Benzo (a) pyrene	150000	33000	"	"	"	"	"	"	
Chrysene	180000	33000	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	33000	"	"	"	"	"	"	
Fluoranthene	260000	33000	"	"	"	"	"	"	
Fluorene	440000	33000	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	33000	"	"	"	"	"	"	
Naphthalene	1400000	33000	"	"	"	"	"	"	
Phenanthrene	830000	33000	"	"	"	"	"	"	
Pyrene	650000	33000	"	"	"	"	"	"	

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/12/12 18:25

COB-EX6-120512
R212022-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **12/05/12 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		102 %	-13.6-167		2120618	12/06/12	12/11/12	EPA 8270D	
Surrogate: 2-Fluorobiphenyl		88.2 %	-7.09-147		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		65.8 %	-42.1-143		"	"	"	"	
Surrogate: Terphenyl-d14		174 %	-19.4-142		"	"	"	"	

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/12/12 18:25

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121011 - EPA 3550A

Blank (2121011-BLK1)					Prepared & Analyzed: 12/10/12						
C10-C28 (DRO)	ND	50	mg/kg								
LCS (2121011-BS1)					Prepared & Analyzed: 12/10/12						
C10-C28 (DRO)	540	50	mg/kg	501	108	73-134					
LCS Dup (2121011-BSD1)					Prepared & Analyzed: 12/10/12						
C10-C28 (DRO)	527	50	mg/kg	501	105	73-134	2.43	11			
Matrix Spike (2121011-MS1)					Source: R212032-02 Prepared & Analyzed: 12/10/12						
C10-C28 (DRO)	602	50	mg/kg	501	ND	120	50-148				
Matrix Spike Dup (2121011-MSD1)					Source: R212032-02 Prepared & Analyzed: 12/10/12						
C10-C28 (DRO)	594	50	mg/kg	501	ND	118	50-148	1.47	13		

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Blank (2120611-BLK1)

Prepared: 12/06/12 Analyzed: 12/07/12

Benzene	ND	2.0	ug/kg
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	10	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	15	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Chlorodibromomethane	ND	10	"
1,2-Dibromo-3-chloropropane	ND	15	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Tert-amyl methyl ether	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane (EDC)	ND	5.0	"
Tert-butyl alcohol	ND	20	"
1,1-Dichloroethene	ND	5.0	"
Ethyl tert-butyl ether	ND	10	"
cis-1,2-Dichloroethene	ND	5.0	"
Di-isopropyl ether	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
Methyl tert-butyl ether	ND	15	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	10	"
1,1-Dichloropropene	ND	5.0	"

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Blank (2120611-BLK1)

Prepared: 12/06/12 Analyzed: 12/07/12

cis-1,3-Dichloropropene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	10	"							
Methylene Chloride	ND	15	"							
Naphthalene	ND	10	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	10	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
Surrogate: 1,2-Dichloroethane-d4	43.9		"	39.7		110	30-150			
Surrogate: Toluene-d8	41.2		"	40.0		103	30-150			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.1	30-150			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

LCS (2120611-BS1)

Prepared: 12/06/12 Analyzed: 12/07/12

Benzene	143	2.0	ug/kg	150		95.4	58-130			
Bromobenzene	136	5.0	"	150		90.4	87-115			
Bromochloromethane	156	5.0	"	150		104	82-122			
Bromodichloromethane	160	5.0	"	150		107	84-119			
Bromoform	142	5.0	"	150		94.5	76-119			
Bromomethane	157	10	"	150		105	39-152			
n-Butylbenzene	128	5.0	"	150		85.5	70-131			
sec-Butylbenzene	127	5.0	"	150		84.5	74-124			
tert-Butylbenzene	129	5.0	"	150		85.9	77-121			
Carbon tetrachloride	132	5.0	"	150		88.3	66-127			
Chlorobenzene	145	5.0	"	150		96.5	82-120			
Chloroethane	151	5.0	"	150		101	63-126			
Chloroform	157	5.0	"	150		105	82-120			
Chloromethane	162	15	"	150		108	57-133			
2-Chlorotoluene	136	5.0	"	150		90.3	82-117			
4-Chlorotoluene	136	5.0	"	150		90.9	81-119			
Chlorodibromomethane	149	10	"	150		99.2	82-124			
1,2-Dibromo-3-chloropropane	152	15	"	150		102	62-128			
1,2-Dibromoethane (EDB)	158	5.0	"	150		105	86-122			
Dibromomethane	161	5.0	"	150		107	83-124			
1,2-Dichlorobenzene	140	5.0	"	150		93.6	84-120			
1,3-Dichlorobenzene	135	5.0	"	150		90.0	81-118			
1,4-Dichlorobenzene	134	5.0	"	150		89.1	80-118			
Dichlorodifluoromethane	129	5.0	"	150		86.2	25-141			
Tert-amyl methyl ether	154	5.0	"	149		103	50-147			
1,1-Dichloroethane	156	5.0	"	150		104	78-120			
1,2-Dichloroethane (EDC)	156	5.0	"	150		104	81-125			
Tert-butyl alcohol	721	20	"	750		96.1	64-127			
1,1-Dichloroethene	144	5.0	"	150		96.1	71-122			
cis-1,2-Dichloroethene	160	5.0	"	150		106	84-121			
Ethyl tert-butyl ether	152	10	"	150		101	80-122			
Di-isopropyl ether	164	5.0	"	150		110	78-120			
trans-1,2-Dichloroethene	151	5.0	"	150		101	77-125			
Methyl tert-butyl ether	164	15	"	150		109	77-124			
1,2-Dichloropropane	153	5.0	"	150		102	88-114			
1,3-Dichloropropane	156	5.0	"	150		104	86-122			
2,2-Dichloropropane	110	10	"	150		73.5	32-150			
1,1-Dichloropropene	139	5.0	"	150		92.6	71-123			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120611 - EPA 5030 Soil MS

LCS (2120611-BS1)

Prepared: 12/06/12 Analyzed: 12/07/12

cis-1,3-Dichloropropene	149	5.0	ug/kg	150		99.2	74-125			
trans-1,3-Dichloropropene	153	5.0	"	150		102	72-126			
Ethylbenzene	143	5.0	"	150		95.5	74-139			
Hexachlorobutadiene	139	5.0	"	150		92.7	56-144			
Isopropylbenzene	139	5.0	"	150		92.4	72-124			
p-Isopropyltoluene	127	10	"	150		84.6	72-123			
Methylene Chloride	167	15	"	150		111	10-183			
Naphthalene	130	10	"	150		86.6	66-138			
n-Propylbenzene	130	5.0	"	150		86.6	76-121			
Styrene	146	10	"	150		97.2	76-133			
1,1,2,2-Tetrachloroethane	124	5.0	"	150		83.0	60-137			
1,1,1,2-Tetrachloroethane	150	5.0	"	150		100	86-121			
Tetrachloroethene	135	5.0	"	150		90.0	69-131			
Toluene	147	5.0	"	150		98.2	61-134			
1,2,3-Trichlorobenzene	159	5.0	"	150		106	63-142			
1,2,4-Trichlorobenzene	147	5.0	"	150		97.7	63-141			
1,1,2-Trichloroethane	158	5.0	"	150		106	75-136			
1,1,1-Trichloroethane	144	5.0	"	150		96.2	71-126			
Trichloroethene	162	5.0	"	150		108	86-118			
Trichlorofluoromethane	131	5.0	"	150		87.1	62-128			
1,2,3-Trichloropropane	148	10	"	150		99.0	80-118			
1,3,5-Trimethylbenzene	128	5.0	"	150		85.2	72-121			
1,2,4-Trimethylbenzene	132	5.0	"	150		88.0	78-126			
Vinyl chloride	144	5.0	"	150		96.0	63-134			
m,p-Xylene	276	10	"	300		91.9	73-137			
o-Xylene	141	5.0	"	150		94.1	73-141			
Surrogate: 1,2-Dichloroethane-d4	41.8		"	39.7		105	30-150			
Surrogate: Toluene-d8	40.3		"	40.0		101	30-150			
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8	30-150			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

LCS Dup (2120611-BSD1)

Prepared: 12/06/12 Analyzed: 12/07/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit
Benzene	145	2.0	ug/kg	150	96.4	58-130	1.02	13	
Bromobenzene	141	5.0	"	150	94.3	87-115	4.20	10	
Bromochloromethane	163	5.0	"	150	109	82-122	4.68	15	
Bromodichloromethane	164	5.0	"	150	110	84-119	2.55	10	
Bromoform	141	5.0	"	150	94.2	76-119	0.318	12	
Bromomethane	166	10	"	150	111	39-152	5.62	21	
n-Butylbenzene	133	5.0	"	150	88.5	70-131	3.52	11	
sec-Butylbenzene	131	5.0	"	150	87.6	74-124	3.63	10	
tert-Butylbenzene	136	5.0	"	150	90.5	77-121	5.19	10	
Carbon tetrachloride	138	5.0	"	150	92.1	66-127	4.23	14	
Chlorobenzene	152	5.0	"	150	101	82-120	4.99	10	
Chloroethane	155	5.0	"	150	103	63-126	2.53	16	
Chloroform	159	5.0	"	150	106	82-120	0.930	15	
Chloromethane	166	15	"	150	110	57-133	1.88	16	
2-Chlorotoluene	141	5.0	"	150	94.2	82-117	4.23	11	
4-Chlorotoluene	141	5.0	"	150	94.1	81-119	3.44	10	
Chlorodibromomethane	151	10	"	150	100	82-124	1.22	11	
1,2-Dibromo-3-chloropropane	161	15	"	150	107	62-128	5.42	19	
1,2-Dibromoethane (EDB)	162	5.0	"	150	108	86-122	2.78	10	
Dibromomethane	165	5.0	"	150	110	83-124	2.96	13	
1,2-Dichlorobenzene	147	5.0	"	150	97.9	84-120	4.51	10	
1,3-Dichlorobenzene	140	5.0	"	150	93.6	81-118	3.92	10	
1,4-Dichlorobenzene	139	5.0	"	150	92.6	80-118	3.85	10	
Dichlorodifluoromethane	162	5.0	"	150	108	25-141	22.2	39	
1,1-Dichloroethane	161	5.0	"	150	107	78-120	3.18	16	
Tert-amyl methyl ether	152	5.0	"	149	102	50-147	0.901	16	
1,2-Dichloroethane (EDC)	157	5.0	"	150	105	81-125	0.517	15	
Tert-butyl alcohol	745	20	"	750	99.3	64-127	3.23	19	
1,1-Dichloroethene	141	5.0	"	150	94.2	71-122	1.98	18	
Ethyl tert-butyl ether	155	10	"	150	103	80-122	1.90	16	
cis-1,2-Dichloroethene	163	5.0	"	150	109	84-121	2.28	18	
Di-isopropyl ether	166	5.0	"	150	111	78-120	1.40	18	
trans-1,2-Dichloroethene	155	5.0	"	150	104	77-125	2.92	16	
Methyl tert-butyl ether	162	15	"	150	108	77-124	1.14	18	
1,2-Dichloropropane	158	5.0	"	150	105	88-114	3.18	10	
1,3-Dichloropropane	161	5.0	"	150	107	86-122	2.89	10	
2,2-Dichloropropane	113	10	"	150	75.4	32-150	2.55	20	
1,1-Dichloropropene	143	5.0	"	150	95.5	71-123	3.13	16	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

LCS Dup (2120611-BSD1)

Prepared: 12/06/12 Analyzed: 12/07/12

cis-1,3-Dichloropropene	151	5.0	ug/kg	150	101	74-125	1.44	18	
trans-1,3-Dichloropropene	158	5.0	"	150	105	72-126	3.40	22	
Ethylbenzene	148	5.0	"	150	98.5	74-139	3.03	12	
Hexachlorobutadiene	147	5.0	"	150	98.3	56-144	5.87	10	
Isopropylbenzene	144	5.0	"	150	95.9	72-124	3.76	12	
p-Isopropyltoluene	133	10	"	150	88.9	72-123	4.98	10	
Methylene Chloride	179	15	"	150	120	10-183	7.39	29	
Naphthalene	139	10	"	150	92.8	66-138	6.87	12	
n-Propylbenzene	137	5.0	"	150	91.3	76-121	5.22	10	
Styrene	153	10	"	150	102	76-133	4.90	13	
1,1,2,2-Tetrachloroethane	139	5.0	"	150	92.4	60-137	10.8	14	
1,1,1,2-Tetrachloroethane	154	5.0	"	150	103	86-121	2.62	10	
Tetrachloroethene	141	5.0	"	150	93.9	69-131	4.28	12	
Toluene	152	5.0	"	150	101	61-134	3.27	16	
1,2,3-Trichlorobenzene	168	5.0	"	150	112	63-142	5.20	10	
1,2,4-Trichlorobenzene	152	5.0	"	150	101	63-141	3.78	10	
1,1,2-Trichloroethane	165	5.0	"	150	110	75-136	3.92	25	
1,1,1-Trichloroethane	148	5.0	"	150	98.6	71-126	2.40	15	
Trichloroethene	164	5.0	"	150	109	86-118	0.920	12	
Trichlorofluoromethane	137	5.0	"	150	91.0	62-128	4.42	17	
1,2,3-Trichloropropane	152	10	"	150	101	80-118	2.24	13	
1,3,5-Trimethylbenzene	134	5.0	"	150	89.6	72-121	5.01	10	
1,2,4-Trimethylbenzene	137	5.0	"	150	91.2	78-126	3.57	10	
Vinyl chloride	147	5.0	"	150	98.0	63-134	2.06	15	
m,p-Xylene	286	10	"	300	95.4	73-137	3.81	14	
o-Xylene	145	5.0	"	150	96.5	73-141	2.54	12	
Surrogate: 1,2-Dichloroethane-d4	40.7		"	39.7	103	30-150			
Surrogate: Toluene-d8	41.5		"	40.0	104	30-150			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0	101	30-150			

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Project Manager: Craig Lugowski

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Matrix Spike (2120611-MS1)	Source: R212021-01			Prepared: 12/06/12		Analyzed: 12/07/12	
Benzene	124	2.0	ug/kg	139	ND	89.4	30-131
Bromobenzene	122	5.0	"	139	ND	87.8	39-124
Bromochloromethane	143	5.0	"	139	ND	103	62-121
Bromodichloromethane	134	5.0	"	139	ND	96.4	51-120
Bromoform	130	5.0	"	139	ND	93.9	52-125
Bromomethane	126	10	"	139	ND	90.6	10-152
n-Butylbenzene	111	5.0	"	139	ND	80.1	10-144
sec-Butylbenzene	115	5.0	"	139	ND	82.9	10-140
tert-Butylbenzene	109	5.0	"	139	ND	78.5	16-132
Carbon tetrachloride	128	5.0	"	139	ND	92.5	46-125
Chlorobenzene	124	5.0	"	139	ND	89.3	42-125
Chloroethane	135	5.0	"	139	ND	97.3	46-125
Chloroform	136	5.0	"	139	ND	97.9	57-118
Chloromethane	143	15	"	139	ND	103	33-132
2-Chlorotoluene	118	5.0	"	139	ND	85.3	30-125
4-Chlorotoluene	119	5.0	"	139	ND	85.7	29-127
Chlorodibromomethane	130	10	"	139	ND	94.1	54-124
1,2-Dibromo-3-chloropropane	169	15	"	139	ND	122	10-175
1,2-Dibromoethane (EDB)	149	5.0	"	139	ND	107	65-125
Dibromomethane	152	5.0	"	139	ND	110	64-127
1,2-Dichlorobenzene	124	5.0	"	139	ND	89.5	24-134
1,3-Dichlorobenzene	114	5.0	"	139	ND	82.1	22-130
1,4-Dichlorobenzene	113	5.0	"	139	ND	81.6	21-131
Dichlorodifluoromethane	138	5.0	"	139	ND	99.5	47-117
Tert-amyl methyl ether	143	5.0	"	138	ND	104	60-124
1,1-Dichloroethane	128	5.0	"	139	ND	92.4	55-119
1,2-Dichloroethane (EDC)	146	5.0	"	139	ND	105	65-124
Tert-butyl alcohol	790	20	"	693	ND	114	64-131
1,1-Dichloroethene	132	5.0	"	139	ND	95.5	42-145
cis-1,2-Dichloroethene	135	5.0	"	139	ND	97.7	56-121
Ethyl tert-butyl ether	137	10	"	139	ND	98.3	60-119
Di-isopropyl ether	131	5.0	"	138	ND	94.8	40-132
trans-1,2-Dichloroethene	126	5.0	"	139	ND	90.9	52-126
Methyl tert-butyl ether	144	15	"	139	ND	104	64-124
1,2-Dichloropropane	134	5.0	"	139	ND	96.7	61-115
1,3-Dichloropropane	147	5.0	"	139	ND	106	66-123
2,2-Dichloropropane	98.5	10	"	139	ND	71.0	35-127
1,1-Dichloropropene	129	5.0	"	139	ND	93.0	52-119

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12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Matrix Spike (2120611-MS1)	Source: R212021-01			Prepared: 12/06/12		Analyzed: 12/07/12	
cis-1,3-Dichloropropene	128	5.0	ug/kg	139	ND	92.2	47-122
trans-1,3-Dichloropropene	131	5.0	"	139	ND	94.3	51-119
Ethylbenzene	122	5.0	"	139	ND	88.3	22-153
Hexachlorobutadiene	112	5.0	"	139	ND	81.0	10-149
Isopropylbenzene	121	5.0	"	139	ND	87.2	18-135
p-Isopropyltoluene	114	10	"	139	ND	82.5	12-132
Methylene Chloride	148	15	"	139	ND	106	10-167
Naphthalene	130	10	"	139	ND	93.8	10-158
n-Propylbenzene	117	5.0	"	139	ND	84.4	15-134
Styrene	122	10	"	139	ND	88.0	33-135
1,1,2,2-Tetrachloroethane	161	5.0	"	139	ND	116	10-166
1,1,1,2-Tetrachloroethane	126	5.0	"	139	ND	90.5	49-123
Tetrachloroethene	120	5.0	"	139	ND	86.7	33-134
Toluene	124	5.0	"	139	ND	89.3	30-134
1,2,3-Trichlorobenzene	134	5.0	"	139	ND	96.4	10-155
1,2,4-Trichlorobenzene	115	5.0	"	139	ND	83.3	10-152
1,1,2-Trichloroethane	149	5.0	"	139	ND	108	46-139
1,1,1-Trichloroethane	133	5.0	"	139	ND	95.9	51-124
Trichloroethene	128	5.0	"	139	ND	92.5	16-187
Trichlorofluoromethane	134	5.0	"	139	ND	96.8	53-125
1,2,3-Trichloropropane	153	10	"	139	ND	110	69-118
1,3,5-Trimethylbenzene	117	5.0	"	139	ND	84.3	20-128
1,2,4-Trimethylbenzene	116	5.0	"	139	ND	84.0	17-142
Vinyl chloride	135	5.0	"	139	ND	97.2	50-134
m,p-Xylene	235	10	"	277	ND	84.9	10-159
o-Xylene	118	5.0	"	139	ND	84.8	31-151
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>42.8</i>		<i>"</i>	<i>36.7</i>		<i>117</i>	<i>30-150</i>
<i>Surrogate: Toluene-d8</i>	<i>37.6</i>		<i>"</i>	<i>37.0</i>		<i>102</i>	<i>30-150</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>36.8</i>		<i>"</i>	<i>37.0</i>		<i>99.7</i>	<i>30-150</i>

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Matrix Spike Dup (2120611-MSD1)	Source: R212021-01			Prepared: 12/06/12		Analyzed: 12/07/12				
Benzene	123	2.0	ug/kg	138	ND	89.0	30-131	1.07	34	
Bromobenzene	123	5.0	"	138	ND	88.9	39-124	0.602	21	
Bromochloromethane	139	5.0	"	138	ND	101	62-121	3.08	20	
Bromodichloromethane	130	5.0	"	138	ND	94.2	51-120	2.92	22	
Bromoform	129	5.0	"	138	ND	93.7	52-125	0.745	22	
Bromomethane	130	10	"	138	ND	94.1	10-152	3.26	90	
n-Butylbenzene	113	5.0	"	138	ND	82.0	10-144	1.87	52	
sec-Butylbenzene	115	5.0	"	138	ND	83.5	10-140	0.240	45	
tert-Butylbenzene	109	5.0	"	138	ND	78.8	16-132	0.0952	33	
Carbon tetrachloride	127	5.0	"	138	ND	91.9	46-125	1.16	22	
Chlorobenzene	126	5.0	"	138	ND	91.1	42-125	1.44	18	
Chloroethane	131	5.0	"	138	ND	95.2	46-125	2.80	24	
Chloroform	130	5.0	"	138	ND	94.2	57-118	4.36	19	
Chloromethane	137	15	"	138	ND	99.3	33-132	4.60	18	
2-Chlorotoluene	119	5.0	"	138	ND	86.4	30-125	0.775	24	
4-Chlorotoluene	119	5.0	"	138	ND	86.3	29-127	0.191	24	
Chlorodibromomethane	130	10	"	138	ND	94.4	54-124	0.298	22	
1,2-Dibromo-3-chloropropane	160	15	"	138	ND	116	10-175	4.96	39	
1,2-Dibromoethane (EDB)	151	5.0	"	138	ND	109	65-125	1.35	22	
Dibromomethane	145	5.0	"	138	ND	105	64-127	4.83	19	
1,2-Dichlorobenzene	126	5.0	"	138	ND	91.1	24-134	1.22	26	
1,3-Dichlorobenzene	116	5.0	"	138	ND	84.2	22-130	1.95	27	
1,4-Dichlorobenzene	116	5.0	"	138	ND	84.4	21-131	2.82	25	
Dichlorodifluoromethane	156	5.0	"	138	ND	113	47-117	12.2	36	
Tert-amyl methyl ether	137	5.0	"	137	ND	100	60-124	3.91	40	
1,1-Dichloroethane	122	5.0	"	138	ND	88.6	55-119	4.68	22	
1,2-Dichloroethane (EDC)	148	5.0	"	138	ND	108	65-124	1.51	19	
Tert-butyl alcohol	759	20	"	689	ND	110	64-131	4.03	24	
1,1-Dichloroethene	128	5.0	"	138	ND	93.2	42-145	2.95	22	
Ethyl tert-butyl ether	132	10	"	138	ND	95.4	60-119	3.54	38	
cis-1,2-Dichloroethene	129	5.0	"	138	ND	93.3	56-121	5.16	21	
Di-isopropyl ether	128	5.0	"	138	ND	92.8	40-132	2.69	108	
trans-1,2-Dichloroethene	124	5.0	"	138	ND	90.1	52-126	1.44	22	
Methyl tert-butyl ether	137	15	"	138	ND	99.0	64-124	5.49	28	
1,2-Dichloropropane	132	5.0	"	138	ND	95.7	61-115	1.55	17	
1,3-Dichloropropane	145	5.0	"	138	ND	105	66-123	1.52	24	
2,2-Dichloropropane	96.4	10	"	138	ND	69.9	35-127	2.11	29	
1,1-Dichloropropene	130	5.0	"	138	ND	94.1	52-119	0.580	21	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120611 - EPA 5030 Soil MS

Matrix Spike Dup (2120611-MSD1)

Source: R212021-01

Prepared: 12/06/12 Analyzed: 12/07/12

cis-1,3-Dichloropropene	123	5.0	ug/kg	138	ND	89.2	47-122	3.84	40
trans-1,3-Dichloropropene	131	5.0	"	138	ND	95.3	51-119	0.502	52
Ethylbenzene	124	5.0	"	138	ND	90.0	22-153	1.33	24
Hexachlorobutadiene	114	5.0	"	138	ND	82.4	10-149	1.06	59
Isopropylbenzene	122	5.0	"	138	ND	88.3	18-135	0.632	33
p-Isopropyltoluene	114	10	"	138	ND	82.9	12-132	0.118	38
Methylene Chloride	137	15	"	138	ND	99.5	10-167	7.27	102
Naphthalene	127	10	"	138	ND	92.1	10-158	2.36	42
n-Propylbenzene	118	5.0	"	138	ND	85.9	15-134	1.14	37
Styrene	125	10	"	138	ND	90.9	33-135	2.62	22
1,1,2,2-Tetrachloroethane	160	5.0	"	138	ND	116	10-166	0.880	45
1,1,1,2-Tetrachloroethane	127	5.0	"	138	ND	92.3	49-123	1.42	21
Tetrachloroethene	126	5.0	"	138	ND	91.2	33-134	4.44	26
Toluene	123	5.0	"	138	ND	89.4	30-134	0.463	30
1,2,3-Trichlorobenzene	133	5.0	"	138	ND	96.8	10-155	0.160	40
1,2,4-Trichlorobenzene	117	5.0	"	138	ND	84.8	10-152	1.30	42
1,1,2-Trichloroethane	150	5.0	"	138	ND	109	46-139	0.520	34
1,1,1-Trichloroethane	126	5.0	"	138	ND	91.5	51-124	5.33	22
Trichloroethene	126	5.0	"	138	ND	91.1	16-187	2.10	19
Trichlorofluoromethane	131	5.0	"	138	ND	94.9	53-125	2.56	20
1,2,3-Trichloropropane	157	10	"	138	ND	114	69-118	2.36	23
1,3,5-Trimethylbenzene	117	5.0	"	138	ND	84.8	20-128	0.0858	31
1,2,4-Trimethylbenzene	116	5.0	"	138	ND	84.5	17-142	0.0167	40
Vinyl chloride	126	5.0	"	138	ND	91.1	50-134	6.99	22
m,p-Xylene	238	10	"	276	ND	86.4	10-159	1.27	68
o-Xylene	120	5.0	"	138	ND	87.0	31-151	1.94	38
Surrogate: 1,2-Dichloroethane-d4	41.2		"	36.5		113	30-150		
Surrogate: Toluene-d8	37.9		"	36.8		103	30-150		
Surrogate: 4-Bromofluorobenzene	36.5		"	36.8		99.2	30-150		

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120618 - EPA 5030 Soil MS

Blank (2120618-BLK1)

Prepared: 12/06/12 Analyzed: 12/11/12

Acenaphthene	ND	330	ug/kg							
Acenaphthylene	ND	330	"							
Anthracene	ND	330	"							
Benzo (a) anthracene	ND	330	"							
Benzo (b) fluoranthene	ND	330	"							
Benzo (k) fluoranthene	ND	330	"							
Benzo (g,h,i) perylene	ND	330	"							
Benzo (a) pyrene	ND	330	"							
Chrysene	ND	330	"							
Dibenz (a,h) anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	330	"							
Naphthalene	ND	330	"							
Phenanthrene	ND	330	"							
Pyrene	ND	330	"							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1460</i>		<i>"</i>	<i>1670</i>	<i>87.7</i>	<i>-13.6-167</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1490</i>		<i>"</i>	<i>1670</i>	<i>89.4</i>	<i>-7.09-147</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1130</i>		<i>"</i>	<i>1670</i>	<i>67.9</i>	<i>-42.1-143</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>1580</i>		<i>"</i>	<i>1640</i>	<i>96.0</i>	<i>-19.4-142</i>				

LCS (2120618-BS1)

Prepared: 12/06/12 Analyzed: 12/11/12

Acenaphthene	1340	330	ug/kg	1670	80.7	45-139				
Acenaphthylene	1350	330	"	1670	81.2	68-113				
Anthracene	1320	330	"	1670	79.1	63-119				
Benzo (a) anthracene	1340	330	"	1670	80.5	18-181				
Benzo (b) fluoranthene	1900	330	"	1670	114	10-169				
Benzo (k) fluoranthene	1940	330	"	1670	116	10-184				
Benzo (g,h,i) perylene	1200	330	"	1670	72.0	10-176				
Benzo (a) pyrene	2100	330	"	1670	126	14-178				
Chrysene	1580	330	"	1670	95.0	10-184				
Dibenz (a,h) anthracene	1280	330	"	1670	76.7	10-171				
Fluoranthene	1320	330	"	1670	79.2	58-127				
Fluorene	1370	330	"	1670	82.1	67-113				
Indeno (1,2,3-cd) pyrene	1050	330	"	1670	63.2	11-175				
Naphthalene	1300	330	"	1670	78.2	62-118				
Phenanthrene	1330	330	"	1670	79.8	62-120				
Pyrene	1300	330	"	1670	78.1	22-174				

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2120618 - EPA 5030 Soil MS

LCS (2120618-BS1)

Prepared: 12/06/12 Analyzed: 12/11/12

Surrogate: Nitrobenzene-d5	1480		ug/kg	1670	88.6	-13.6-167			
Surrogate: 2-Fluorobiphenyl	1500		"	1670	90.0	-7.09-147			
Surrogate: 2,4,6-Tribromophenol	1260		"	1670	75.4	-42.1-143			
Surrogate: Terphenyl-d14	1400		"	1640	85.4	-19.4-142			

LCS Dup (2120618-BS1)

Prepared: 12/06/12 Analyzed: 12/11/12

Acenaphthene	1390	330	ug/kg	1670	83.5	45-139	3.48	15
Acenaphthylene	1390	330	"	1670	83.7	68-113	3.03	22
Anthracene	1370	330	"	1670	82.0	63-119	3.50	14
Benzo (a) anthracene	1460	330	"	1670	87.6	18-181	8.42	24
Benzo (b) fluoranthene	2220	330	"	1670	133	10-169	15.6	22
Benzo (k) fluoranthene	2310	330	"	1670	139	10-184	17.4	24
Benzo (g,h,i) perylene	1340	330	"	1670	80.4	10-176	11.0	27
Benzo (a) pyrene	2260	330	"	1670	136	14-178	7.26	18
Chrysene	1560	330	"	1670	93.8	10-184	1.29	23
Dibenz (a,h) anthracene	1390	330	"	1670	83.3	10-171	8.28	19
Fluoranthene	1360	330	"	1670	81.7	58-127	3.13	14
Fluorene	1430	330	"	1670	85.6	67-113	4.20	16
Indeno (1,2,3-cd) pyrene	1150	330	"	1670	68.9	11-175	8.63	23
Naphthalene	1330	330	"	1670	79.9	62-118	2.12	28
Phenanthrene	1380	330	"	1670	82.6	62-120	3.45	16
Pyrene	1300	330	"	1670	78.3	22-174	0.307	41
Surrogate: Nitrobenzene-d5	1540		"	1670	92.4	-13.6-167		
Surrogate: 2-Fluorobiphenyl	1530		"	1670	91.9	-7.09-147		
Surrogate: 2,4,6-Tribromophenol	1320		"	1670	79.1	-42.1-143		
Surrogate: Terphenyl-d14	1380		"	1640	84.2	-19.4-142		

Matrix Spike (2120618-MS1)

Source: R212022-01

Prepared: 12/06/12 Analyzed: 12/11/12

QM-07

Acenaphthene	960	3300	ug/kg	1670	1700	NR	32-136
Acenaphthylene	6850	3300	"	1670	5250	95.6	45-114
Anthracene	3950	3300	"	1670	1730	134	38-121
Benzo (a) anthracene	20100	3300	"	1670	12400	461	28-135
Benzo (b) fluoranthene	17100	3300	"	1670	11600	331	10-161
Benzo (k) fluoranthene	21800	3300	"	1670	13100	521	10-172
Benzo (g,h,i) perylene	7090	3300	"	1670	4240	171	10-149
Benzo (a) pyrene	27200	3300	"	1670	14900	735	11-148
Chrysene	22400	3300	"	1670	12600	590	10-142
Dibenz (a,h) anthracene	613	3300	"	1670	713	NR	10-129

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/12/12 18:25

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 2120618 - EPA 5030 Soil MS

Matrix Spike (2120618-MS1)	Source: R212022-01			Prepared: 12/06/12	Analyzed: 12/11/12			QM-07
Fluoranthene	24100	3300	ug/kg	1670	9830	855	40-141	
Fluorene	6100	3300	"	1670	1870	254	45-118	
Indeno (1,2,3-cd) pyrene	9000	3300	"	1670	5850	189	10-150	
Naphthalene	8550	3300	"	1670	8810	NR	51-111	
Phenanthrene	32800	3300	"	1670	2200	NR	39-135	
Pyrene	73000	3300	"	1670	24900	NR	10-150	
<i>Surrogate: Nitrobenzene-d5</i>	<i>1360</i>		<i>"</i>	<i>1670</i>		<i>81.4</i>	<i>-13.6-167</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1270</i>		<i>"</i>	<i>1670</i>		<i>76.4</i>	<i>-7.09-147</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1090</i>		<i>"</i>	<i>1670</i>		<i>65.6</i>	<i>-42.1-143</i>	
<i>Surrogate: Terphenyl-dl4</i>	<i>2250</i>		<i>"</i>	<i>1640</i>		<i>137</i>	<i>-19.4-142</i>	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/12/12 18:25

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 19, 2012

Craig Lugowski
USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden, CO 80401
RE: 1770 13th St

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/12 15:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Joseph J Egry IV
Laboratory Director



USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/19/12 10:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Holder	R212040-01	Oil	12/06/12 09:45	12/07/12 15:37

Summit Scientific 222040

741 Corporate Circle Suite 1 • Golden, Colorado 80401
 303-277-9310 • 303-374-5933 Fax

Client: USA Environmental
 Address: 17301 W Colfax Ave Ste 152
 City/State/Zip: Golden, CO 80401
 Phone: 303-277-9310 Fax:
 Sampler Name: Miller/Maguire
 Project Manager: Craig Lugowski
 E-Mail: clugowski@usaenvironment.com
 Project Name: 1770 13th St
 Project Number: 5047

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For	Special Instructions
Holder	12/06/12	0945	5	HCl HNO ₃ None Other (Specify)	Air - Canister Serial # Soil Groundwater	8260 VDC 582 8811-250 PC1	
Relinquished by: <i>Miller</i>	Date/Time: 12/12/12 1537	Received by: <i>Maguire</i>	Date/Time: 12/12/12 1537	Turn Around Time (Check) Same Day 24 Hours 48 Hours 72 Hours Standard	Notes:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 51 Impact: Yes No			

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Holder
R212040-01 (Oil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/06/12 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	477000	2000	mg/L	40	2121305	12/13/12	12/13/12	8015 Full Carbon Chain	
o-Terphenyl	11.4		"	1	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/06/12 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2400000	10000	ug/l	10000	2121304	12/13/12	12/14/12	EPA 8260B	
Bromobenzene	ND	10000	"	"	"	"	"	"	
Bromochloromethane	ND	50000	"	"	"	"	"	"	
Bromodichloromethane	ND	20000	"	"	"	"	"	"	
Bromoform	ND	10000	"	"	"	"	"	"	
Bromomethane	ND	10000	"	"	"	"	"	"	
n-Butylbenzene	150000	10000	"	"	"	"	"	"	
sec-Butylbenzene	ND	10000	"	"	"	"	"	"	
tert-Butylbenzene	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	10000	"	"	"	"	"	"	
Chlorobenzene	ND	10000	"	"	"	"	"	"	
Chloroethane	ND	10000	"	"	"	"	"	"	
Chloroform	ND	50000	"	"	"	"	"	"	
Chloromethane	ND	10000	"	"	"	"	"	"	
Chlorodibromomethane	ND	10000	"	"	"	"	"	"	
2-Chlorotoluene	ND	10000	"	"	"	"	"	"	
4-Chlorotoluene	ND	10000	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10000	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10000	"	"	"	"	"	"	
Dibromomethane	ND	10000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10000	"	"	"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Holder
R212040-01 (Oil)

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Volatile Organic Compounds by EPA Method 8260B

			ug/l	10000	2121304	12/13/12	12/14/12	EPA 8260B
1,1-Dichloroethane	ND	10000	ug/l	10000	2121304	12/13/12	12/14/12	EPA 8260B
1,2-Dichloroethane (EDC)	ND	10000	"	"	"	"	"	"
1,1-Dichloroethene	ND	10000	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	10000	"	"	"	"	"	"
1,2-Dichloropropane	ND	10000	"	"	"	"	"	"
1,3-Dichloropropane	ND	10000	"	"	"	"	"	"
2,2-Dichloropropane	ND	10000	"	"	"	"	"	"
1,1-Dichloropropene	ND	10000	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	10000	"	"	"	"	"	"
Ethylbenzene	4500000	10000	"	"	"	"	"	"
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"
Tert-amyl methyl ether	ND	10000	"	"	"	"	"	"
Tert-butyl alcohol	ND	200000	"	"	"	"	"	"
Isopropylbenzene	480000	10000	"	"	"	"	"	"
p-Isopropyltoluene	390000	10000	"	"	"	"	"	"
Methylene Chloride	ND	50000	"	"	"	"	"	"
Methyl tert-butyl ether	ND	50000	"	"	"	"	"	"
Naphthalene	60000000	10000	"	"	"	"	"	"
n-Propylbenzene	210000	10000	"	"	"	"	"	"
Styrene	ND	10000	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	10000	"	"	"	"	"	"
Tetrachloroethene	ND	10000	"	"	"	"	"	"
Toluene	4300000	10000	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	10000	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	10000	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	10000	"	"	"	"	"	"
Trichloroethene	38000	10000	"	"	"	"	"	"
Trichlorofluoromethane	ND	10000	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	10000	"	"	"	"	"	"
1,3,5-Trimethylbenzene	490000	10000	"	"	"	"	"	"
1,2,4-Trimethylbenzene	810000	10000	"	"	"	"	"	"
Vinyl chloride	ND	10000	"	"	"	"	"	"
m,p-Xylene	3500000	20000	"	"	"	"	"	"

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

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12/19/12 10:54

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Volatile Organic Compounds by EPA Method 8260B

o-Xylene	1500000	10000	ug/l	10000	2121304	12/13/12	12/14/12	EPA 8260B
Gasoline Range Hydrocarbons	120000000	5000000	"	"	"	"	"	"

Date Sampled: 12/06/12 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.3 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		106 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	80.8-120		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D

R-01

Date Sampled: 12/06/12 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	2140000	3300	ug/l	10	2121408	12/12/12	12/14/12	EPA 8270D	
Acenaphthylene	12000000	3300	"	"	"	"	"	"	
Anthracene	3630000	3300	"	"	"	"	"	"	
Benzo (a) anthracene	3000000	3300	"	"	"	"	"	"	
Benzo (b) fluoranthene	1410000	3300	"	"	"	"	"	"	
Benzo (k) fluoranthene	1910000	3300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	226000	3300	"	"	"	"	"	"	
Benzo (a) pyrene	2240000	3300	"	"	"	"	"	"	
Chrysene	2850000	3300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	3300	"	"	"	"	"	"	
Fluoranthene	3260000	3300	"	"	"	"	"	"	
Fluorene	8590000	3300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	452000	3300	"	"	"	"	"	"	
Naphthalene	79000000	33000	"	100	"	"	"	"	
Phenanthrene	12500000	3300	"	10	"	"	"	"	
Pyrene	8180000	3300	"	"	"	"	"	"	

Date Sampled: 12/06/12 09:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		140 %	-13.6-167		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		122 %	-7.09-147		"	"	"	"	

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Holder
R212040-01 (Oil)

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Semivolatile Organic Compounds by EPA Method 8270D

R-01

Surrogate: 2,4,6-Tribromophenol	54.0 %	-42.1-143	2121408	12/12/12	12/14/12	EPA 8270D	
Surrogate: Terphenyl-d14	178 %	-19.4-142	"	"	"	"	S-06

Conventional Chemistry Parameters by APHA/EPA Methods

Date Sampled: **12/06/12 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.6	1.0	pH Units	1	2121709	12/17/12	12/17/12	EPA 9040	

Accutest Laboratories

Date Sampled: **12/06/12 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Reactive Cyanide	ND	1.5	mg/kg	1	2121405	12/13/12	12/13/12	EPA 7.3	

Date Sampled: **12/06/12 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Reactive Sulfide	ND	10	"	"	"	"	"	"	

ESC Lab Sciences

Date Sampled: **12/06/12 09:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Flashpoint @ 620 mm Hg	133	132	°F	1	2121903	12/18/12	12/19/12	EPA 1010	

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/19/12 10:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch 2121305 - EPA 3550A

Blank (2121305-BLK1)				Prepared & Analyzed: 12/13/12						
C10-C28 (DRO)	ND	50.0	mg/L							
o-Terphenyl	10.6		"	13.2		80.7				
LCS (2121305-BS1)				Prepared & Analyzed: 12/13/12						
C10-C28 (DRO)	430	50.0	mg/L	501		85.7	50-150			
LCS Dup (2121305-BSD1)				Prepared & Analyzed: 12/13/12						
C10-C28 (DRO)	428	50.0	mg/L	501		85.5	50-150	0.332	20	

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch 2121304 - EPA 5030 Soil MS

Blank (2121304-BLK1)

Prepared & Analyzed: 12/13/12

Benzene	ND	1.0	ug/l
Bromobenzene	ND	1.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	2.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	1.0	"
Chlorodibromomethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	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	"
1,2-Dichloroethane (EDC)	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	1.0	"
trans-1,3-Dichloropropene	ND	1.0	"
Ethylbenzene	ND	1.0	"
Hexachlorobutadiene	ND	1.0	"
Tert-amyl methyl ether	ND	1.0	"

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USA Environmental CP
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 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 2121304 - EPA 5030 Soil MS

Blank (2121304-BLK1)

Prepared & Analyzed: 12/13/12

Tert-butyl alcohol	ND	20	ug/l						
Isopropylbenzene	ND	1.0	"						
p-Isopropyltoluene	ND	1.0	"						
Methylene Chloride	ND	5.0	"						
Methyl tert-butyl ether	ND	5.0	"						
Naphthalene	ND	1.0	"						
n-Propylbenzene	ND	1.0	"						
Styrene	ND	1.0	"						
1,1,2,2-Tetrachloroethane	ND	1.0	"						
1,1,1,2-Tetrachloroethane	ND	1.0	"						
Tetrachloroethene	ND	1.0	"						
Toluene	ND	1.0	"						
1,2,3-Trichlorobenzene	ND	1.0	"						
1,2,4-Trichlorobenzene	ND	1.0	"						
1,1,2-Trichloroethane	ND	1.0	"						
1,1,1-Trichloroethane	ND	1.0	"						
Trichloroethene	ND	1.0	"						
Trichlorofluoromethane	ND	1.0	"						
1,2,3-Trichloropropane	ND	1.0	"						
1,3,5-Trimethylbenzene	ND	1.0	"						
1,2,4-Trimethylbenzene	ND	1.0	"						
Vinyl chloride	ND	1.0	"						
m,p-Xylene	ND	2.0	"						
o-Xylene	ND	1.0	"						
Gasoline Range Hydrocarbons	ND	500	"						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>41.8</i>		<i>"</i>	<i>39.7</i>	<i>105</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>40.8</i>		<i>"</i>	<i>40.0</i>	<i>102</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>38.9</i>		<i>"</i>	<i>40.0</i>	<i>97.2</i>	<i>80.8-120</i>			

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Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121304 - EPA 5030 Soil MS

LCS (2121304-BS1)

Prepared & Analyzed: 12/13/12

Benzene	132	1.0	ug/l	150		88.3	56-117			
Bromobenzene	137	1.0	"	150		91.2	87-114			
Bromochloromethane	145	5.0	"	150		96.4	69-139			
Bromodichloromethane	148	2.0	"	150		98.9	82-124			
Bromoform	123	1.0	"	150		82.3	73-127			
Bromomethane	88.9	1.0	"	150		59.2	46-158			
n-Butylbenzene	132	1.0	"	150		88.2	75-130			
sec-Butylbenzene	130	1.0	"	150		86.7	79-122			
tert-Butylbenzene	134	1.0	"	150		89.5	83-117			
Carbon tetrachloride	135	1.0	"	150		90.0	53-143			
Chlorobenzene	134	1.0	"	150		89.3	82-114			
Chloroethane	102	1.0	"	150		67.9	53-136			
Chloroform	141	5.0	"	150		93.8	69-132			
Chloromethane	76.0	1.0	"	150		50.7	47-140			
Chlorodibromomethane	133	1.0	"	150		88.9	76-134			
2-Chlorotoluene	140	1.0	"	150		93.3	84-113			
4-Chlorotoluene	140	1.0	"	150		93.5	84-116			
1,2-Dibromo-3-chloropropane	157	1.0	"	150		105	67-127			
1,2-Dibromoethane (EDB)	143	1.0	"	150		95.1	82-125			
Dibromomethane	146	1.0	"	150		97.1	84-126			
1,2-Dichlorobenzene	140	1.0	"	150		93.6	88-116			
1,3-Dichlorobenzene	133	1.0	"	150		88.5	85-112			
1,4-Dichlorobenzene	132	1.0	"	150		87.9	84-111			
Dichlorodifluoromethane	126	1.0	"	150		84.3	39-138			
1,1-Dichloroethane	137	1.0	"	150		91.0	70-129			
1,2-Dichloroethane (EDC)	145	1.0	"	150		96.7	85-120			
1,1-Dichloroethene	132	1.0	"	150		87.8	64-132			
cis-1,2-Dichloroethene	146	1.0	"	150		97.0	72-132			
trans-1,2-Dichloroethene	142	1.0	"	150		95.0	69-130			
1,2-Dichloropropane	145	1.0	"	150		96.5	87-118			
1,3-Dichloropropane	147	1.0	"	150		97.7	81-123			
2,2-Dichloropropane	122	1.0	"	150		81.6	24-159			
1,1-Dichloropropene	135	1.0	"	150		89.8	46-156			
cis-1,3-Dichloropropene	145	1.0	"	150		96.7	71-133			
trans-1,3-Dichloropropene	139	1.0	"	150		92.4	69-137			
Ethylbenzene	136	1.0	"	150		90.6	54-138			
Hexachlorobutadiene	147	1.0	"	150		98.0	71-123			
Tert-amyl methyl ether	120	1.0	"	149		80.7	54-144			

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Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2121304 - EPA 5030 Soil MS

LCS (2121304-BS1)

Prepared & Analyzed: 12/13/12

Tert-butyl alcohol	523	20	ug/l	750		69.7	48-137			
Isopropylbenzene	112	1.0	"	150		74.7	78-125			
p-Isopropyltoluene	123	1.0	"	150		82.0	78-121			
Methylene Chloride	119	5.0	"	150		79.4	52-147			
Methyl tert-butyl ether	114	5.0	"	150		75.6	65-133			
Naphthalene	162	1.0	"	150		108	69-141			
n-Propylbenzene	136	1.0	"	150		90.8	80-119			
Styrene	131	1.0	"	150		87.2	76-132			
1,1,2,2-Tetrachloroethane	147	1.0	"	150		97.7	74-129			
1,1,1,2-Tetrachloroethane	136	1.0	"	150		90.5	82-124			
Tetrachloroethane	131	1.0	"	150		87.5	70-124			
Toluene	139	1.0	"	150		92.6	54-125			
1,2,3-Trichlorobenzene	160	1.0	"	150		106	80-122			
1,2,4-Trichlorobenzene	149	1.0	"	150		99.3	76-122			
1,1,2-Trichloroethane	147	1.0	"	150		98.0	80-128			
1,1,1-Trichloroethane	140	1.0	"	150		93.4	68-133			
Trichloroethene	144	1.0	"	150		95.8	78-124			
Trichlorofluoromethane	95.1	1.0	"	150		63.4	56-134			
1,2,3-Trichloropropane	147	1.0	"	150		98.2	77-126			
1,3,5-Trimethylbenzene	120	1.0	"	150		80.0	80-120			
1,2,4-Trimethylbenzene	137	1.0	"	150		91.3	84-124			
Vinyl chloride	142	1.0	"	150		94.3	60-132			
m,p-Xylene	257	2.0	"	300		85.5	57-132			
o-Xylene	127	1.0	"	150		84.9	57-131			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>40.8</i>		<i>"</i>	<i>39.7</i>		<i>103</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>41.1</i>		<i>"</i>	<i>40.0</i>		<i>103</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>38.4</i>		<i>"</i>	<i>40.0</i>		<i>95.9</i>	<i>80.8-120</i>			

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Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121304 - EPA 5030 Soil MS

LCS Dup (2121304-BSD1)

Prepared & Analyzed: 12/13/12

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Benzene	139	1.0	ug/l	150		92.8	56-117	4.99	10.9	
Bromobenzene	142	1.0	"	150		94.5	87-114	3.56	25	
Bromochloromethane	150	5.0	"	150		100	69-139	3.83	25	
Bromodichloromethane	156	2.0	"	150		104	82-124	4.78	25	
Bromoform	134	1.0	"	150		89.2	73-127	8.07	25	
Bromomethane	97.6	1.0	"	150		65.0	46-158	9.33	25	
n-Butylbenzene	136	1.0	"	150		90.5	75-130	2.62	25	
sec-Butylbenzene	134	1.0	"	150		89.3	79-122	2.91	25	
tert-Butylbenzene	139	1.0	"	150		92.5	83-117	3.32	25	
Carbon tetrachloride	141	1.0	"	150		94.2	53-143	4.60	25	
Chlorobenzene	143	1.0	"	150		95.4	82-114	6.63	9.87	
Chloroethane	107	1.0	"	150		71.4	53-136	5.11	25	
Chloroform	148	5.0	"	150		98.4	69-132	4.79	25	
Chloromethane	72.2	1.0	"	150		48.2	47-140	5.06	25	
Chlorodibromomethane	142	1.0	"	150		94.7	76-134	6.30	25	
2-Chlorotoluene	145	1.0	"	150		96.9	84-113	3.72	25	
4-Chlorotoluene	146	1.0	"	150		97.4	84-116	4.04	25	
1,2-Dibromo-3-chloropropane	172	1.0	"	150		114	67-127	8.82	25	
1,2-Dibromoethane (EDB)	152	1.0	"	150		101	82-125	6.25	25	
Dibromomethane	155	1.0	"	150		103	84-126	6.15	25	
1,2-Dichlorobenzene	143	1.0	"	150		95.0	88-116	1.46	25	
1,3-Dichlorobenzene	137	1.0	"	150		91.1	85-112	2.94	25	
1,4-Dichlorobenzene	140	1.0	"	150		93.5	84-111	6.13	25	
Dichlorodifluoromethane	138	1.0	"	150		92.0	39-138	8.80	25	
1,1-Dichloroethane	144	1.0	"	150		96.1	70-129	5.41	25	
1,2-Dichloroethane (EDC)	151	1.0	"	150		101	85-120	4.23	25	
1,1-Dichloroethene	140	1.0	"	150		93.2	64-132	5.92	12.6	
cis-1,2-Dichloroethene	151	1.0	"	150		101	72-132	3.88	25	
trans-1,2-Dichloroethene	147	1.0	"	150		98.2	69-130	3.35	25	
1,2-Dichloropropane	154	1.0	"	150		102	87-118	5.83	25	
1,3-Dichloropropane	158	1.0	"	150		105	81-123	7.45	25	
2,2-Dichloropropane	127	1.0	"	150		84.9	24-159	3.92	25	
1,1-Dichloropropene	137	1.0	"	150		91.2	46-156	1.55	25	
cis-1,3-Dichloropropene	153	1.0	"	150		102	71-133	5.59	25	
trans-1,3-Dichloropropene	147	1.0	"	150		97.9	69-137	5.78	25	
Ethylbenzene	143	1.0	"	150		95.5	54-138	5.25	25	
Hexachlorobutadiene	151	1.0	"	150		101	71-123	2.78	25	
Tert-amyl methyl ether	127	1.0	"	149		85.2	54-144	5.40	25	

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121304 - EPA 5030 Soil MS

LCS Dup (2121304-BSD1)

Prepared & Analyzed: 12/13/12

Tert-butyl alcohol	594	20	ug/l	750	79.2	48-137	12.7	25	
Isopropylbenzene	119	1.0	"	150	79.0	78-125	5.65	25	
p-Isopropyltoluene	126	1.0	"	150	84.2	78-121	2.67	25	
Methylene Chloride	134	5.0	"	150	89.4	52-147	11.8	25	
Methyl tert-butyl ether	122	5.0	"	150	80.9	65-133	6.81	25	
Naphthalene	171	1.0	"	150	114	69-141	5.22	25	
n-Propylbenzene	141	1.0	"	150	93.9	80-119	3.29	25	
Styrene	139	1.0	"	150	92.6	76-132	6.01	25	
1,1,2,2-Tetrachloroethane	163	1.0	"	150	109	74-129	10.6	25	
1,1,1,2-Tetrachloroethane	146	1.0	"	150	97.4	82-124	7.32	25	
Tetrachloroethane	138	1.0	"	150	92.1	70-124	5.19	25	
Toluene	144	1.0	"	150	96.1	54-125	3.73	11.3	
1,2,3-Trichlorobenzene	167	1.0	"	150	112	80-122	4.70	25	
1,2,4-Trichlorobenzene	155	1.0	"	150	103	76-122	4.01	25	
1,1,2-Trichloroethane	158	1.0	"	150	105	80-128	7.27	25	
1,1,1-Trichloroethane	145	1.0	"	150	96.7	68-133	3.49	25	
Trichloroethene	146	1.0	"	150	97.6	78-124	1.88	8.98	
Trichlorofluoromethane	101	1.0	"	150	67.2	56-134	5.88	25	
1,2,3-Trichloropropane	156	1.0	"	150	104	77-126	5.60	25	
1,3,5-Trimethylbenzene	121	1.0	"	150	80.8	80-120	0.920	25	
1,2,4-Trimethylbenzene	143	1.0	"	150	95.4	84-124	4.39	25	
Vinyl chloride	147	1.0	"	150	97.7	60-132	3.54	25	
m,p-Xylene	269	2.0	"	300	89.7	57-132	4.75	25	
o-Xylene	135	1.0	"	150	89.7	57-131	5.59	25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>41.2</i>		<i>"</i>	<i>39.7</i>	<i>104</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>42.3</i>		<i>"</i>	<i>40.0</i>	<i>106</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>40.2</i>		<i>"</i>	<i>40.0</i>	<i>101</i>	<i>80.8-120</i>			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121408 - EPA 5030 Soil MS

Blank (2121408-BLK1)

Prepared: 12/12/12 Analyzed: 12/13/12

Acenaphthene	ND	330	ug/l							
Acenaphthylene	ND	330	"							
Anthracene	ND	330	"							
Benzo (a) anthracene	ND	330	"							
Benzo (b) fluoranthene	ND	330	"							
Benzo (k) fluoranthene	ND	330	"							
Benzo (g,h,i) perylene	ND	330	"							
Benzo (a) pyrene	ND	330	"							
Chrysene	ND	330	"							
Dibenz (a,h) anthracene	ND	330	"							
Fluoranthene	ND	330	"							
Fluorene	ND	330	"							
Indeno (1,2,3-cd) pyrene	ND	330	"							
Naphthalene	ND	330	"							
Phenanthrene	ND	330	"							
Pyrene	ND	330	"							
<i>Surrogate: Nitrobenzene-d5</i>	<i>1490</i>		<i>"</i>	<i>1670</i>		<i>89.5</i>	<i>-13.6-167</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1350</i>		<i>"</i>	<i>1670</i>		<i>80.8</i>	<i>-7.09-147</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1440</i>		<i>"</i>	<i>1670</i>		<i>86.2</i>	<i>-42.1-143</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>1700</i>		<i>"</i>	<i>1640</i>		<i>103</i>	<i>-19.4-142</i>			

LCS (2121408-BS1)

Prepared: 12/12/12 Analyzed: 12/13/12

Acenaphthene	1290	330	ug/l	1670		77.2	45-139			
Acenaphthylene	1340	330	"	1670		80.3	68-113			
Anthracene	1290	330	"	1670		77.2	63-119			
Benzo (a) anthracene	1480	330	"	1670		88.9	18-181			
Benzo (b) fluoranthene	2390	330	"	1670		143	10-169			
Benzo (k) fluoranthene	2470	330	"	1670		148	10-184			
Benzo (g,h,i) perylene	1120	330	"	1670		67.2	10-176			
Benzo (a) pyrene	2110	330	"	1670		127	14-178			
Chrysene	1510	330	"	1670		90.7	10-184			
Dibenz (a,h) anthracene	1240	330	"	1670		74.2	10-171			
Fluoranthene	1430	330	"	1670		85.7	58-127			
Fluorene	1250	330	"	1670		75.0	67-113			
Indeno (1,2,3-cd) pyrene	1120	330	"	1670		67.1	11-175			
Naphthalene	1260	330	"	1670		75.7	62-118			
Phenanthrene	1300	330	"	1670		78.2	62-120			
Pyrene	1550	330	"	1670		93.2	22-174			

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St
Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121408 - EPA 5030 Soil MS

LCS (2121408-BS1)

Prepared: 12/12/12 Analyzed: 12/13/12

Surrogate: Nitrobenzene-d5	1520		ug/l	1670	91.4	-13.6-167			
Surrogate: 2-Fluorobiphenyl	1360		"	1670	81.7	-7.09-147			
Surrogate: 2,4,6-Tribromophenol	1430		"	1670	85.7	-42.1-143			
Surrogate: Terphenyl-d14	1600		"	1640	97.6	-19.4-142			

LCS Dup (2121408-BS1)

Prepared: 12/12/12 Analyzed: 12/14/12

Acenaphthene	1340	330	ug/l	1670	80.3	45-139	4.01	15	
Acenaphthylene	1370	330	"	1670	82.2	68-113	2.39	22	
Anthracene	1310	330	"	1670	78.6	63-119	1.87	14	
Benzo (a) anthracene	1460	330	"	1670	87.4	18-181	1.79	24	
Benzo (b) fluoranthene	2460	330	"	1670	148	10-169	2.83	22	
Benzo (k) fluoranthene	2600	330	"	1670	156	10-184	5.21	24	
Benzo (g,h,i) perylene	1110	330	"	1670	66.9	10-176	0.448	27	
Benzo (a) pyrene	2320	330	"	1670	139	14-178	9.52	18	
Chrysene	1550	330	"	1670	93.2	10-184	2.72	23	
Dibenz (a,h) anthracene	1350	330	"	1670	80.8	10-171	8.57	19	
Fluoranthene	1480	330	"	1670	88.8	58-127	3.58	14	
Fluorene	1320	330	"	1670	79.0	67-113	5.22	16	
Indeno (1,2,3-cd) pyrene	1140	330	"	1670	68.5	11-175	2.09	23	
Naphthalene	1310	330	"	1670	78.4	62-118	3.43	28	
Phenanthrene	1350	330	"	1670	80.8	62-120	3.22	16	
Pyrene	1550	330	"	1670	93.3	22-174	0.0429	41	
Surrogate: Nitrobenzene-d5	1510		"	1670	90.7	-13.6-167			
Surrogate: 2-Fluorobiphenyl	1410		"	1670	84.7	-7.09-147			
Surrogate: 2,4,6-Tribromophenol	1500		"	1670	90.1	-42.1-143			
Surrogate: Terphenyl-d14	1610		"	1640	98.1	-19.4-142			

Matrix Spike (2121408-MS1)

Source: R212040-01

Prepared: 12/12/12 Analyzed: 12/14/12

Acenaphthene	2320000	3300	ug/l	100000	2140000	174	32-136		QM-4X
Acenaphthylene	13400000	3300	"	100000	12000000	NR	45-114		QM-4X
Anthracene	3950000	3300	"	100000	3630000	322	38-121		QM-4X
Benzo (a) anthracene	2790000	3300	"	100000	3000000	NR	28-135		QM-4X
Benzo (b) fluoranthene	1110000	3300	"	100000	1410000	NR	10-161		QM-4X
Benzo (k) fluoranthene	2070000	3300	"	100000	1910000	158	10-172		
Benzo (g,h,i) perylene	204000	3300	"	100000	226000	NR	10-149		QM-4X
Benzo (a) pyrene	2070000	3300	"	100000	2240000	NR	11-148		QM-4X
Chrysene	2750000	3300	"	100000	2850000	NR	10-142		QM-4X
Dibenz (a,h) anthracene	42000	3300	"	100000	ND	42.0	10-129		

Summit Scientific

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USA Environmental CP
 17301 W Colfax Ave, Suite 152
 Golden CO, 80401

Project: 1770 13th St
 Project Number: 5047
 Project Manager: Craig Lugowski

Reported:
 12/19/12 10:54

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 2121408 - EPA 5030 Soil MS

Matrix Spike (2121408-MS1)	Source: R212040-01			Prepared: 12/12/12		Analyzed: 12/14/12			
Fluoranthene	3660000	3300	ug/l	100000	3260000	406	40-141		QM-4X
Fluorene	7440000	3300	"	100000	8590000	NR	45-118		QM-4X
Indeno (1,2,3-cd) pyrene	380000	3300	"	100000	452000	NR	10-150		QM-4X
Naphthalene	86700000	33000	"	100000	79000000	NR	51-111		QM-4X
Phenanthrene	14500000	3300	"	100000	12500000	NR	39-135		QM-4X
Pyrene	5570000	3300	"	100000	8180000	NR	10-150		QM-4X
<i>Surrogate: Nitrobenzene-d5</i>	<i>166000</i>		<i>"</i>	<i>100000</i>		<i>166</i>	<i>-13.6-167</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>126000</i>		<i>"</i>	<i>100000</i>		<i>126</i>	<i>-7.09-147</i>		
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>68000</i>		<i>"</i>	<i>100000</i>		<i>68.0</i>	<i>-42.1-143</i>		
<i>Surrogate: Terphenyl-d14</i>	<i>120000</i>		<i>"</i>	<i>98600</i>		<i>122</i>	<i>-19.4-142</i>		

Summit Scientific

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USA Environmental CP
17301 W Colfax Ave, Suite 152
Golden CO, 80401

Project: 1770 13th St

Project Number: 5047
Project Manager: Craig Lugowski

Reported:
12/19/12 10:54

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



December 3, 2012

USA Environment, L.P.
17301 W. Colfax Ave, Suite 152
Golden, CO 80401

Re: Asbestos Bulk Sample (gasket material)
1775 14th Street
Boulder, Colorado

Blue Mesa Environmental collected one (1) bulk sample from the above site for USA Environmental. The sample is a gasket material associated with piping that was removed. The sample was collected on November 29, 2012 by Mr. Brandon Ramer a Colorado State Certified Asbestos Inspector (#4766). **The result of the gasket material was non-detected.**

If you have any further questions please do not hesitate to call us at 303.981.3458.

Lab Results are attached.

Sincerely,
Blue Mesa Environmental

Brandon Ramer
President



November 30, 2012

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 248356-1
Project # / P.O. #: None Given
Project Description: 1776 14th/USA

Brandon Ramer
Blue Mesa Environmental
9956 W. Remington Place A10, Ste 230
Littleton CO 80128

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 248356-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Jeanne Spencer
President

Analyst(s): _____

- | | |
|------------------|-----------------------|
| Paul D. LoScalzo | Wenlong Liu |
| Michael Scales | Adam Humphreys |
| Anita Grigg | Robert R. Workman Jr. |
| Paige Terry | Anya Angst |
| Brett S. Colbert | Jillian A. Doherty |
| Brett S. Colbert | Jillian A. Doherty |

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Lab Code 101896-0
TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 248356-1**
 Client: **Blue Mesa Environmental**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **1775 14th/USA**
 Date Samples Received: **November 29, 2012**
 Analysis Type: **PLM, Short Report**
 Turnaround: **24 Hour**
 Date Analyzed: **November 30, 2012**

ND=None Detected
 TR=Trace, <1% Visual Estimate
 Trem-Act=Tremolite-Actinolite

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)	
1775-01	EM 194224	A	Brown/multi-colored fibrous material	100	ND	90	10

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.



Data QA

Due Date: 11/20/12
Due Time: 3:05

RELAB Reservoirs Environmental, Inc.

RES 248356

5901 Logan St. Denver, CO 80216 • Ph: 303 964-1996 • Fax 303-477-4275 • Toll Free 866 RES-ENV
After Hours Cell Phone: 720-339-9228

INVOICE TO: (IF DIFFERENT)

CONTACT INFORMATION:

Company: BLUE MESA ENV	Company:	Contact:
Address: 9955 W. Remington Pl. APO 230	Address:	Phone:
LITTLETON, CO 80128		Fax:
		Cellpager:
Project Number and/or P.O. #: 1775-1477-USA	Project Description/Location:	Final Date Deliverable Email Address:

PLM / PCM / TEM	ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm (Rush PCMI = 2hr, TEM = 6hr.)	CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm RUSH 24 hr. 3-5 Day RUSH 5 day 10 day 24 hr. 3 day 5 Day	MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm E.coli O157:H7, Coliforms, S.aureus Salmonella, Listeria, E.coli, APC, Y & M Mold RUSH 24 hr. 48 hr. 3 Day 5 Day	REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES								
				PLM - Short report, Point Count, Long report, Qualitative	TEM - AI/RA Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-veg, ISO Indirect Preps	PCM - 7400A, 7400B, OSHA	DUST - Total, Respirable		METALS - Analyte(s) RCRA 8, TCLP, Welding Fume, Metals Scan, PH	ORGANICS - METH, TSS	Salmonella +/- E.coli O157:H7 +/- Listeria +/- Aerobic Plate Count +/- or Quantification Coliforms +/- or Quantification S.aureus +/- or Quantification Y & M +/- or Quantification Mold +/- Identification, Quantification	SAMPLER'S INITIALS OR OTHER NOTES	Sample Volume (l) / Area	Matrix Code	Date Collected mm/dd/yyyy	Time Collected hh/mm/ab
1	1775-01	GASKG	303-981-3458													193224
2																
3																
4																
5																
6																
7																
8																
9																
10																

Number of samples received: 1 (Additional samples shall be listed on attached long form.)
NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: [Signature] Date/Time: 11-29-12 1505
Carrier: [Signature]
Laboratory Use Only
Received By: [Signature] Date/Time: 11/29/12 3:05
Results: [Signature] Date/Time: 11/29/12 1505

Contact:	Phone Email Fax	Date	Time	Initials	Contact:	Phone Email Fax	Date	Time	Initials
Contact:	Phone Email Fax	Date	Time	Initials	Contact:	Phone Email Fax	Date	Time	Initials

STATE OF COLORADO

ASBESTOS CERTIFICATION*

Colorado Department of Public Health
and Environment
Air Pollution Control Division

This certifies that

Brandon Ramer

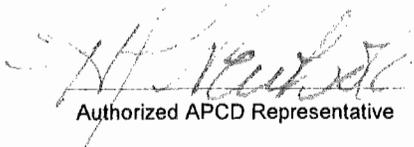
Certification No: 4766

has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Inspector/Management Planner*

Issued: 11/21/2012

Expires on: 11/21/2013


Authorized APCD Representative

** This certificate is valid only with the possession of a current Division-approved training course
certification in the discipline specified above.*

SEAL



Attachment F

Groundwater Gauging and Sampling Sheets



Groundwater/ NAPL Gauging Form

PROJECT LOCATION: 1770 13th St.

Event: 11/30/12 Subsurface Inv. Date(s): 11/30/12

Weather: Mostly Sunny 60°F

Field Personnel: JHC + MPM

Measuring Device: IP Solenost

Well ID	Date	Time	D.T.W.	D.T.P	T.D.	Comments
MW-1	11/30/12	1330	11.07	ND	15.73	①
MW-2	↓	1341	10.18	ND	13.40	②
MW-3		1415	2808.79	1	14.31	③
MW-4		1352	6.36	ND	14.06	③
MW-5		1428	8.33	ND	14.00	③
MW-6		1402	8.17	ND	14.39	③④
MW-7		1409	8.50	ND	14.67	⑤
MW-8		1434	8.83	ND	13.95	③ silty bottom.

D.T.W. = depth to water D.T.P. = depth to product T.D. = total depth

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/30/12 WELL ID: MW-1

PROJECT NAME: 1770 13th St. TEMPERATURE: 50 °F or °C

FIELD PERSONNEL: JHC + GEL MPM WEATHER: Mostly sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 11.07 FT. or IN.
- B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
- C. Total Depth of Well (TD) from top of casing/piezometer: 15.73 FT. or IN.
- D. Height of Water Column in casing (h = TD - SWL): 4.66 FT. or IN.
- E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>				
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>4.66</u>	= <u>2.33</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water		= _____ PV (gallons)

(0.75)

PURGING METHOD: Bailer DURATION: 1510 - 1530

OBSERVATIONS:

Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol: <u>1514</u>	<u>High</u>	<u>Brown/No</u>	<u>5.99</u>	<u>4.12</u>	<u>0.318</u>	<u>1</u>	
2 nd Vol: <u>1516</u>	<u>" "</u>	<u>" "</u>	<u>5.42</u>	<u>4.14</u>	<u>0.246</u>		
3 rd Vol: <u>1519</u>	<u>" "</u>	<u>" "</u>	<u>5.12</u>	<u>4.03</u>	<u>0.228</u>		
4 th Vol: _____							
5 th Vol: _____							

DO + ORP collected Downhole 1191P 0.95

TOTAL VOLUME OF WATER PURGED FROM WELL: 2.5 gal.
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: Drum stored on-site.

SAMPLES COLLECTED: Depth to Water at time of sample collection: 11.22'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-MW1-113012</u>	<u>1525</u>	<u>3x 40-1 VOA</u>	<u>HCl</u>	<u>826000C + G20</u>
		<u>1x 16 Amber.</u>	<u>None</u>	<u>PAH + DR20</u>

COMMENTS:

First bail slightly silty, remaining baits are highly turbid.
No distinguishable rocks.
Needed to bailers to collect enough volume for PAH/DR20 + split for Tetra-Tech.
Tetra Techs Ambers required additional baits as well.

Casing Capacities:

- 2-inch hole 0.16 gal/lin ft.
- 4-inch hole 0.65 gal/lin ft.
- 6.5 inch hole 1.70 gal/lin ft.
- 8-inch hole 2.60 gal/lin ft.
- 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 15.73
 Original Water Column: 4.66 x 0.80 = 3.73)
 Collect Sample when Depth to Water Measures
Less than or equal to: 12.0'
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/30/12 WELL ID: MW-2

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °C or °F

FIELD PERSONNEL: JHC + MPM WEATHER: Mostly sunny (sunset)

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 10.18 FT. or IN.
- B. Thickness of Free NAPL, if present: _____ Inches _____ FT. or IN.
- C. Total Depth of Well (TD) from top of casing/piezometer: 17.40 FT. or IN.
- D. Height of Water Column in casing (h = TD - SWL): 3.22 FT. or IN.
- E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>			
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>3.22 = 1.61</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water	<u> =</u> PV (gallons)

PURGING METHOD: Bailer DURATION: ~~15 min~~ 20 min

OBSERVATIONS:

Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol: <u>1553</u>	<u>med high</u>	<u>brown/No</u>	<u>6.30</u>	<u>4.93</u>	<u>0.313</u>		
2 nd Vol: <u>1556</u>	<u>high</u>	<u>" "</u>	<u>6.29</u>	<u>4.91</u>	<u>0.241</u>		
3 rd Vol: <u>1558</u>	<u>"</u>	<u>" "</u>	<u>6.33</u>	<u>4.89</u>	<u>0.238</u>		
4 th Vol: _____						<u>102.0</u>	<u>2.11</u>
5 th Vol: _____							

TOTAL VOLUME OF WATER PURGED FROM WELL: 1.75

PURGE WATER STORED/DISPOSED OF WHERE/HOW: On-site 55-gal. drum

SAMPLES COLLECTED: Depth to Water at time of sample collection: 10.38'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-MW2-11/30/12</u>	<u>1605</u>	<u>2x40-1 VOL</u>	<u>HCl</u>	<u>8200 VOC + CR0</u>
<u>" " "</u>		<u>1x 1L Amber</u>	<u>None</u>	<u>PAH + DR0</u>
_____	_____	_____	_____	_____

COMMENTS:

light solvent/hydrocarbon odor observed } hard difficult to distinguish.
 Coarse sands in bottom of bailer, potentially
 free well construction. At first crucial well result + caps were covered in sands
 as well (photo)
 Multiple bailer full/volume needed to fill all US&T + PetroTech split samples.

Casing Capacities:

- 2-inch hole 0.16 gal/lin ft.
- 4-inch hole 0.65 gal/lin ft.
- 6.5 inch hole 1.70 gal/lin ft.
- 8-inch hole 2.60 gal/lin ft.
- 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 17.40
 Original Water Column: 3.22 x 0.80 = -(2.58)
 Collect Sample when Depth to Water Measures
Less than or equal to: 10.32

Signature: 

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/3/12 WELL ID: MW-3 + Dup
 PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C
 FIELD PERSONNEL: JHC + BWF WEATHER: mostly sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 879 8.78 FT. or IN.
 B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: 14.31 FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): 5.53 FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	3 Well Vols	5 Well Vols			0.92
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water <u>5.53</u> = <u>2.76</u>	PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water _____ = _____	PV (gallons)

PURGING METHOD: Bailer DURATION: 1125 - 1155

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>1125</u>	<u>High</u>	<u>gray/Yes</u>	<u>6.54</u>	<u>5.38</u>	<u>0.243</u>		
2 nd Vol:	<u>1130</u>	<u>"</u>	<u>" Yes</u>	<u>6.48</u>	<u>5.32</u>	<u>0.252</u>		
3 rd Vol:	<u>1132</u>	<u>"</u>	<u>" "</u>	<u>6.42</u>	<u>5.46</u>	<u>0.250</u>		
4 th Vol:								
5 th Vol:			<u>NO + ORP Collected Downhole</u>			<u>0.266</u>		<u>0.27</u>

TOTAL VOLUME OF WATER PURGED FROM WELL: 3.5 hours
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: 3.5 hours. On-site 55 gal. Drum.

SAMPLES COLLECTED: Depth to Water at time of sample collection: 8.85'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB - MW3 - 120312</u>	<u>1135</u>	<u>3x40 - 1 VOA</u>	<u>HCl</u>	<u>P260 VOC + GKO</u>
<u>" "</u>		<u>1x16</u>		<u>PAH + DRG</u>
<u>COB - FIELD DVP - 120312</u>	<u>1140</u>	<u>3x40 - 1 VOA</u>	<u>HCl</u>	<u>P260 VOC + GKO</u>
		<u>1x16</u>		<u>PAH on 1/2</u>

COMMENTS:

Purge water is turbid gray/brown with non-continuous sheen on surface
* Sheen decreasing on 2nd purge volume.
Apparent hydrocarbon odor

Casing Capacities:
 2-inch hole 0.16 gal/lin ft.
 4-inch hole 0.65 gal/lin ft.
 6.5 inch hole 1.70 gal/lin ft.
 8-inch hole 2.60 gal/lin ft.
 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 14.31
 Original Water Column: 5.53 x 0.80 = -(4.42)
 Collect Sample when Depth to Water Measures
Less than or equal to: 9.88
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/30/12 WELL ID: MW-4
 PROJECT NAME: 13th St Plaza TEMPERATURE: 60 °F or °C
 FIELD PERSONNEL: MPM JTC WEATHER: Mostly sunny (sunset)

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 6.36 FT. or IN.
 B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: 14.06 FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): 7.70 FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>				
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>7.70</u>	= <u>3.85</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water		= _____ PV (gallons)

1 wV = 1.3

PURGING METHOD: Bailer DURATION: 1630-1645

OBSERVATIONS:

	<u>Time</u>	<u>Turbidity</u>	<u>Color/Sheen</u>	<u>pH</u>	<u>Temp</u>	<u>Conduct</u>	<u>ORP</u>	<u>DO</u>
1 st Vol:	<u>1635</u>	<u>High</u>	<u>Brown/No</u>	<u>5.25</u>	<u>-2.71</u>	<u>0.109</u>		
2 nd Vol:	<u>1637</u>	<u>"</u>	<u>" "</u>	<u>3.08</u>	<u>-2.81</u>	<u>0.097</u>		
3 rd Vol:	<u>1639</u>	<u>"</u>	<u>" "</u>	<u>4.12</u>	<u>-2.79</u>	<u>0.095</u>		
4 th Vol:								
5 th Vol:								

DO for P collected Down hole - 2148 3.55

TOTAL VOLUME OF WATER PURGED FROM WELL: 4 gals
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: On-site 55 gal Drum

SAMPLES COLLECTED: Depth to Water at time of sample collection: 6.66

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COB-MW4-113012</u>	<u>1645</u>	<u>4 3x 40-1 WQA</u>	<u>HCl</u>	<u>2260 VOA/GRO PAH/DRO</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Very silty/turbid water
Needed multiple bailers to fill sample for VOA + TotalTech.

Casing Capacities:

2-inch hole 0.16 gal/lin ft.
 4-inch hole 0.65 gal/lin ft.
 6.5 inch hole 1.70 gal/lin ft.
 8-inch hole 2.60 gal/lin ft.
 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 14.06
 Original Water Column: 7.70 x 0.80 = 6.16)
 Collect Sample when Depth to Water Measures
Less than or equal to: 7.9
 Signature: [Signature]

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/3/12 WELL ID: MW-5
 PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C
 FIELD PERSONNEL: JHC BWF WEATHER: Mostly Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 8.29 FT. or IN.
- B. Thickness of Free NAPL, if present: _____ Inches _____ FT. or IN.
- C. Total Depth of Well (TD) from top of casing/piezometer: 14.00 FT. or IN.
- D. Height of Water Column in casing (h = TD - SWL): 5.71 FT. or IN.
- E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>			<u>(0.95)</u>
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water <u>5.71</u>	= <u>2.86</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water _____	= _____ PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>1203</u>	<u>High</u>	<u>Dark Brown/Yes</u>	<u>6.55</u>	<u>3.40</u>	<u>6.152</u>		
2 nd Vol:	<u>1206</u>	<u>"</u>	<u>" "</u>	<u>6.21</u>	<u>3.26</u>	<u>0.152</u>		
3 rd Vol:	<u>1209</u>	<u>"</u>	<u>" "</u>	<u>6.01</u>	<u>3.13</u>	<u>0.149</u>		
4 th Vol:			<u>DO + ORP collected downhole</u>				<u>39.0</u>	<u>1.37</u>
5 th Vol:								

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: Depth to Water at time of sample collection: 9.11'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COA-MW5-120312</u>	<u>1210</u>	<u>3x VOA</u> <u>1x IL</u>	<u>HCl</u> <u>N/A</u>	<u>P260 VOC + GLO</u> <u>PAH + DR0</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Highly turbid water, sheen (non-continuous) observed on purge water.
Hydrocarbon odor present on purge water.

- Casing Capacities:
- 2-inch hole 0.16 gal/lin ft.
 - 4-inch hole 0.65 gal/lin ft.
 - 6.5 inch hole 1.70 gal/lin ft.
 - 8-inch hole 2.60 gal/lin ft.
 - 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 14.00
 Original Water Column: 5.71 x 0.80 = -(4.57)
 Collect Sample when Depth to Water Measures
Less than or equal to: 9.43
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: _____ DATE: 11/30/12 WELL ID: MW-6
 PROJECT NAME: _____ TEMPERATURE: _____ °F or °C
 FIELD PERSONNEL: _____ WEATHER: _____

MS/MSD

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: 8.17 FT. or IN.
 B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: 14.39 FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): 6.22 FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>			
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>6.22 = 3.11</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water	= _____ PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>1718</u>	<u>med high</u>	<u>brown/AO</u>	<u>5.68</u>	<u>1.46</u>	<u>0.123</u>		
2 nd Vol:	<u>1720</u>	<u>High</u>	<u>" "</u>	<u>6.66</u>	<u>1.45</u>	<u>0.126</u>		
3 rd Vol:	<u>1722</u>	<u>"</u>	<u>" "</u>	<u>6.66</u>	<u>1.46</u>	<u>0.128</u>		
4 th Vol:							<u>63.9</u>	<u>1.32</u>
5 th Vol:								

TOTAL VOLUME OF WATER PURGED FROM WELL: 8.25
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: 55 gal drum onsite

SAMPLES COLLECTED: _____ Depth to Water at time of sample collection: 8.20

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-MW6-011/30/12</u>	<u>1730</u>	<u>3 x VOA</u> <u>1 x 1L Amber</u> <u>6 x VOA</u> <u>2 x 1L A</u>		<u>8260W/6RO</u> <u>PAH/DRO</u> <u>MS/MSD</u> <u>MS/MSD</u>

COMMENTS:

Moderate hydrocarbon odor detected on purge water
Need extra bailer volumes to fill bottles for USA + Tech.

Casing Capacities:
 2-inch hole 0.16 gal/lin ft.
 4-inch hole 0.65 gal/lin ft.
 6.5 inch hole 1.70 gal/lin ft.
 8-inch hole 2.60 gal/lin ft.
 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 14.39
 Original Water Column: 6.22 x 0.80 = -(4.98)
 Collect Sample when Depth to Water Measures
Less than or equal to: 9.41
 Signature: [Signature]

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/2/12 WELL ID: MW-7

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: JHC BWF WEATHER: Mostly Sunny

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: 8.508.47 FT. or IN.
- B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
- C. Total Depth of Well (TD) from top of casing/piezometer: 14.67 FT. or IN.
- D. Height of Water Column in casing (h = TD - SWL): 6.2 FT. or IN.
- E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>					
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>6.2</u>	=	<u>3.1</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water		=	_____ PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>1046</u>	<u>High</u>	<u>Brown/No</u>	<u>6.65</u>	<u>5.68</u>	<u>0.293</u>		
2 nd Vol:	<u>1048</u>	<u>"</u>	<u>" "</u>	<u>6.65</u>	<u>5.79</u>	<u>0.222</u>		
3 rd Vol:	<u>1051</u>	<u>"</u>	<u>" "</u>	<u>6.67</u>	<u>5.72</u>	<u>0.227</u>		
4 th Vol:				<u>6.73</u>				
5 th Vol:				<u>DO + ORP</u>	<u>Collected</u>	<u>Downhole</u>	<u>-13.6</u>	<u>0.29</u>

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: Depth to Water at time of sample collection: 9.01'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>CGS-MW 7-120312</u>	<u>1055</u>	<u>3x40ml VOA</u> <u>1x1L Amber</u>	<u>HCl</u>	<u>8260VOC + CHL</u> <u>PAH + DRD</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Instant Noticeable hydrocarbon odor on purge water.
Submitted for next analysis.
Water is fractured turbid/brown from purging activities.

- Casing Capacities:
- 2-inch hole 0.16 gal/lin ft.
 - 4-inch hole 0.65 gal/lin ft.
 - 6.5 inch hole 1.70 gal/lin ft.
 - 8-inch hole 2.60 gal/lin ft.
 - 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 14.67
 Original Water Column: 6.2 x 0.80 = -(4.96)
 Collect Sample when Depth to Water Measures
Less than or equal to: 9.71
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/3/12 WELL ID: MW-8
 PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C
 FIELD PERSONNEL: JHC + BWF WEATHER: Mostly Sunny

FIELD MEASUREMENTS:

A. Static Water Level (SWL) below top of casing/piezometer: ~~8.81~~ 8.81 FT. or IN.
 B. Thickness of Free NAPL, if present: _____ Inches _____ FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: 13.95 FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): 5.14 FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>				
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>5.14</u>	= <u>2.57</u> PV (gallons) ^(0.86)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water		= _____ PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>1240</u>	<u>High</u>	<u>dark Brown/Yel</u>	<u>6.18</u>	<u>5.32</u>	<u>0.527</u>		
2 nd Vol:	<u>1242</u>	<u>"</u>	<u>" "</u>	<u>6.39</u>	<u>5.20</u>	<u>0.520</u>		
3 rd Vol:	<u>1244</u>	<u>"</u>	<u>" "</u>	<u>6.41</u>	<u>5.14</u>	<u>0.534</u>		
4 th Vol:				<u>6.41</u>	<u>5.14</u>		<u>-65.8</u>	<u>0.14</u>
5 th Vol:								

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: Depth to Water at time of sample collection: 9.60'

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB - MW8-120312</u>	<u>1250</u>	<u>3x 100L</u>	<u>HCl</u>	<u>220 VOC + GRG</u>
		<u>1x 1L</u>	<u>-</u>	<u>PAH + DR</u>

COMMENTS:

Strong hydrocarbon odor, silty purge water, sheen on purge water.

Casing Capacities:

- 2-inch hole 0.16 gal/lin ft.
- 4-inch hole 0.65 gal/lin ft.
- 6.5 inch hole 1.70 gal/lin ft.
- 8-inch hole 2.60 gal/lin ft.
- 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: 13.95
 Original Water Column: 5.14 x 0.80 = 4.11)
 Collect Sample when Depth to Water Measures
Less than or equal to: 9.84
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/27/12 WELL ID: COB-SPWATER-112712

PROJECT NAME: 1770 13th St. TEMPERATURE: 60 °F or °C

FIELD PERSONNEL: J. Carrington, C. Logowski, M. Majumder WEATHER: Partly Cloudy

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: NA FT. or IN.
- B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
- C. Total Depth of Well (TD) from top of casing/piezometer: _____ FT. or IN.
- D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.
- E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>			
2" diameter = 0.5 gals/ft	0.82 gals/ft	X	feet of water	=	PV (gallons)
4" diameter = 2.0 gals/ft	3.25 gals/ft	X	feet of water	=	PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	Time	Turbidity	Color/Sheen	pH	Temp	Conduct	ORP	DO
1 st Vol:	<u>No Parameters Collected - Grab Sample from Pipe Interior</u>							
2 nd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
3 rd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
4 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____
5 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: Depth to Water at time of sample collection: _____

Sample Number(s)	Time	Size/Number of Container(s)	Preservative	Analysis
<u>COB-SPWATER-112712</u>	<u>1345</u>	<u>3x40-1 VOA</u>	_____	<u>8260 VOC</u>
_____	_____	<u>1x4-1 L. Amber</u>	_____	<u>8270 SVOC</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Sample collected from clear running water exiting South Pipe Run after breaking coupling on 1st. pipe section to the West.

- Casing Capacities:
- 2-inch hole 0.16 gal/lin ft.
 - 4-inch hole 0.65 gal/lin ft.
 - 6.5 inch hole 1.70 gal/lin ft.
 - 8-inch hole 2.60 gal/lin ft.
 - 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: NA
 Original Water Column: _____ x 0.80 = --(_____)
 Collect Sample when Depth to Water Measures **Less than or equal to:** _____
 Signature: _____

GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 11/28/12 WELL ID: COR-NPWATER-112+12
 PROJECT NAME: 1770 13th St. TEMPERATURE: 55 °F or °C
 FIELD PERSONNEL: J. Carrington WEATHER: Overcast

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: NA FT. or IN.
 B. Thickness of Free NAPL, if present: _____ Inches FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: 1 FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): _____ FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>					
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	—	=	— PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water	—	=	— PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	<u>Time</u>	<u>Turbidity</u>	<u>Color/Sheen</u>	<u>pH</u>	<u>Temp</u>	<u>Conduct</u>	<u>ORP</u>	<u>DO</u>
1 st Vol:	<u>NA - Water collected from N. Pipe run at time of 'breaking'</u>							
2 nd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
3 rd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
4 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____
5 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: _____ Depth to Water at time of sample collection: _____

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>COR-NPWATER-112P12</u>	<u>1345</u>	<u>3x VOA</u>	<u>HCl</u>	<u>8260 VOC</u>
_____	_____	<u>1x 1L Amber</u>	<u>H2SO4</u>	<u>8270 SVOC</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Water collected from pipe joint after separation. Water flowed slowly from pipe rim, collected directly from free falling stream. Noticeable odor, no sheen on sample bottle surface, but non-continuous sheen observed on pooled water contained on plastic sheeting.

Casing Capacities:
 2-inch hole 0.16 gal/lin ft.
 4-inch hole 0.65 gal/lin ft.
 6.5 inch hole 1.70 gal/lin ft.
 8-inch hole 2.60 gal/lin ft.
 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:
 Total Depth of Well: NA
 Original Water Column: _____ x 0.80 = --()
 Collect Sample when Depth to Water Measures
Less than or equal to:

Signature: J. Carrington

Fluid Sample from Below Concrete at Holder
GROUNDWATER/SURFACE WATER SAMPLING FIELD DATA SHEET

PROJECT NUMBER: 5047 DATE: 12/06/12 WELL ID: Holder
 PROJECT NAME: 13th St. Plaza TEMPERATURE: 52 °F or °C
 FIELD PERSONNEL: MPM WEATHER: Partly/ Mostly Cloudy

FIELD MEASUREMENTS:

- A. Static Water Level (SWL) below top of casing/piezometer: N/A FT. or IN.
 B. Thickness of Free NAPL, if present: N/A Inches N/A FT. or IN.
 C. Total Depth of Well (TD) from top of casing/piezometer: N/A FT. or IN.
 D. Height of Water Column in casing (h = TD - SWL): N/A FT. or IN.
 E. Useful approximate Purge Volumes (PV) per foot of water column for common casing sizes:

	<u>3 Well Vols</u>	<u>5 Well Vols</u>			
2" diameter = 0.5 gals/ft		0.82 gals/ft	X	feet of water	<u>N/A</u> = <u>N/A</u> PV (gallons)
4" diameter = 2.0 gals/ft		3.25 gals/ft	X	feet of water	<u>N/A</u> = <u>N/A</u> PV (gallons)

PURGING METHOD: Bailer DURATION: _____

OBSERVATIONS:

	<u>Time</u>	<u>Turbidity</u>	<u>Color/Sheen</u>	<u>pH</u>	<u>Temp</u>	<u>Conduct</u>	<u>ORP</u>	<u>DO</u>
1 st Vol:	_____	_____	_____	_____	_____	_____	_____	_____
2 nd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
3 rd Vol:	_____	_____	_____	_____	_____	_____	_____	_____
4 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____
5 th Vol:	_____	_____	_____	_____	_____	_____	_____	_____

TOTAL VOLUME OF WATER PURGED FROM WELL: _____
 PURGE WATER STORED/DISPOSED OF WHERE/HOW: _____

SAMPLES COLLECTED: _____ Depth to Water at time of sample collection: _____

<u>Sample Number(s)</u>	<u>Time</u>	<u>Size/Number of Container(s)</u>	<u>Preservative</u>	<u>Analysis</u>
<u>Holder</u>	<u>0945</u>	<u>(2) Liter</u>	<u>—</u>	<u>8270 8015</u>
		<u>3-Uial</u>	<u>HCL</u>	<u>8260 + TPH-g</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

COMMENTS:

Split Sample w/ Tetra Tech @ west end of parking lot.

- Casing Capacities:
 2-inch hole 0.16 gal/lin ft.
 4-inch hole 0.65 gal/lin ft.
 6.5 inch hole 1.70 gal/lin ft.
 8-inch hole 2.60 gal/lin ft.
 10-inch hole 4.10 gal/lin ft.

Recharge Calculation at Time of Sample Collection:

Total Depth of Well: N/A
 Original Water Column: N/A x 0.80 = --()
 Collect Sample when Depth to Water Measures
Less than or equal to: N/A
 Signature: _____