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March 27, 2010

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**Subject: Phase II Targeted Brownfields Assessment
Waverly Yard Waste Site, Waverly, Iowa
EPA Region 7, Mini-START, Contract No. EP-S7-09-01, Task Order No. 0008
Task Monitor: Ron King, Site Assessment Team Leader**

Dear Mr. Crossland:

Seagull Environmental Technologies Inc. (Seagull) is submitting the attached Phase II Targeted Brownfields Assessment (TBA) report for the Waverly Yard Waste site located in Waverly, Iowa. If you have any questions or comments, please contact the project manager at (316) 288-1420.

Sincerely,

Joel Harvester
Mini-START Project Manager

Hieu Q. Vu, PE
Mini-START Program Manager

Enclosures

PHASE II TARGETED BROWNFIELDS ASSESSMENT REPORT

WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Mini-Superfund Technical Assessment and Response Team (Mini-START)

Contract No. EP-S7-09-01, Task Order No. 0008

Prepared For:

U.S. Environmental Protection Agency
Region 7
901 North 5th Street
Kansas City, Kansas 66101

March 27, 2010

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EXECUTIVE SUMMARY

Seagull Environmental Technologies Inc. (Seagull) was tasked by the U.S. Environmental Protection Agency (EPA), under the Mini-Superfund Technical Assessment and Response Team (Mini-START) contract to conduct a Phase II Targeted Brownfields Assessment (TBA) of the Waverly Yard Waste site. The Waverly Yard Waste site encompasses 15 acres and is currently owned/operated by the City of Waverly as a yard waste collection facility. The site's address is 1301 8th Street SE, which is approximately 1.2 miles southeast of downtown Waverly, Iowa. Seagull completed a Phase I TBA for the site in December 2009. The Phase I TBA report (Seagull 2009) specified recognized environmental conditions (REC) that were primarily related to the historical use of the site as a solid waste landfill and as a shooting range by the Waverly Police Department. The purpose of this Phase II TBA was to confirm or eliminate the RECs specified in the Phase I TBA report by determining if historical activities conducted at the site have impacted soil and groundwater underlying the subject property. For this investigation, soil and groundwater samples were collected from the site to determine the nature and extent of any soil and groundwater contamination, determine if elevated levels of methane gas are present in the subsurface, and assess threats to human health and the environment posed by any contaminated environmental media and/or methane gas.

This Phase II TBA has confirmed the following RECs to the subject property:

- A surface soil x-ray fluorescence (XRF) survey completed at the site determined lead concentrations ranged from 15 to 480 milligram per kilogram (mg/kg). XRF screening indicated that two of the 66 surface soil samples contained lead at concentrations greater than its Iowa Statewide Standard of 400 mg/kg. Samples SS-1-7 and SS-5-2 contained lead at 480 mg/kg and 416 mg/kg, respectively.
- Subsurface soil samples collected from the site contained volatile organic compounds (VOC) and total extractable hydrocarbons (TEH); however, all of the detected concentrations of those compounds were well below their respective health-based standards. In addition, subsurface soils contained metals regulated under the Resource Conservation and Recovery Act (RCRA); however, lead was the only RCRA metal detected at a concentration above its respective Iowa Statewide Standard. Sample B-7 (collected from 9 to 10 feet below ground surface [bgs]) contained lead at 462 mg/kg, which exceeded its Iowa Statewide Standard of 400 mg/kg.
- In groundwater samples collected from the site, total arsenic, chromium, and lead were detected at concentrations that exceeded their respective Iowa Statewide Standards for protected groundwater sources. Groundwater samples analyzed for dissolved metals only contained detectable levels of barium; however, none of the barium concentrations were above its respective Iowa Statewide Standard.

- Soil gas samples collected from the site were determined to contain elevated concentrations of methane. Field screening results for methane ranged from 0 percent (%) lower explosive limit (LEL) (which corresponds to 0 parts per million [ppm] of methane) to greater than 100% LEL (which corresponds to a concentration greater than 50,000 ppm). The flammable range of methane is from 50,000 ppm to 150,000 ppm. For confirmation purposes, five soil gas samples were submitted for laboratory analysis of methane. In those confirmation samples, methane was detected at concentrations that ranged from 69.4 to 166,000 milligrams per cubic meter (mg/m³).

Based on sampling conducted during this Phase II TBA, both surface and subsurface soil appears to have likely been impacted by historical operations at the site. A surface soil survey completed at the site (in particular, in the former shooting range area) indicated that two of the 66 surface soil samples collected contained lead greater than its Iowa Statewide Standard of 400 mg/kg. Samples SS-1-7 and SS-5-2 contained lead at 480 mg/kg and 416 mg/kg, respectively. Sample SS-1-7 was collected from the former shooting range area, and SS-5-2 was collected from the east-southeast portion of the site. Of the 66 surface soil samples collected, six were submitted for laboratory analysis of total lead (and the other RCRA metals) to confirm the XRF screening results (for lead). In those six samples, lead was the only RCRA metal detected above its respective Iowa Statewide Standard of 400 mg/kg. The laboratory sample for SS-1-7 contained lead at 508 mg/kg. This result corresponds well with the field screening XRF result for lead for the sample, which was 480 mg/kg. The presence of lead above 400 mg/kg in the surface soil is likely attributed to its past operation as a solid waste landfill. Remnants of historic landfill operations, including old car frames and other pieces of scrap metal, are located along the east-southeast boundary of the site. Materials potentially containing lead components and/or lead-based paint could be attributed to the elevated lead concentrations at the two surface soil sample locations. It should be noted that none of the surface soil samples (particularly in the former shooting range area) contained lead shot or lead fragments that could be associated with past shooting range activities. Because only two of the 66 surface soil samples contained lead above its health-based standard, it appears historical operations at the site have not impacted surface soil at the site in a wide-spread manner.

Subsurface soil contained VOCs, TEH, and RCRA metals; however, only lead was detected above an established health-based standard. The sample collected from B-7 (collected from 9 to 10 feet bgs) contained lead at 462 mg/kg, which exceeds its Iowa Statewide Standard of 400 mg/kg. None of the other RCRA metals were detected at concentrations that exceeded their respective Iowa Statewide Standards. The concentration of lead in B-7 could be attributable to fill material associated with the former solid waste landfill. Since none of the other subsurface soil samples contained any elevated concentrations of lead (or other RCRA metals), no wide-spread contamination is indicated.

Soil gas samples collected during this Phase II TBA from locations across the site determined that elevated concentrations of methane are present in the subsurface. Field screening results from 11 soil gas samples indicated methane concentrations ranged from 0% LEL (which corresponds to 0 ppm of methane) to greater than 100% LEL (which corresponds to greater than 50,000 ppm). The flammable range of methane is from 50,000 ppm to 150,000 ppm. Based on the screening results, soil gas samples collected from B-6, B-8, and B-9 contained methane concentrations greater than its LEL of 50,000 ppm. Five samples were submitted for laboratory analysis of methane to confirm the field screening results. In those samples, methane concentrations ranged from 69.4 to 166,000 mg/m³. After converting the laboratory results from mg/m³ to ppm, those concentrations range from 105 to 253,004 ppm. In general, the field screening results for methane correlated well with the laboratory results for methane. Laboratory results determined the soil gas samples collected from B-8 and B-9 contained the highest concentrations of methane, which were 33,300 and 166,000 mg/m³, respectively (which converts to 50,296 and 253,004 ppm, respectively). Based on the field screening and laboratory results, the highest concentrations of methane were detected in the south-central portion of the site. Methane gas is commonly associated with landfills (as a result of decaying solid waste). Hazards associated with methane gas include its migration through the subsurface into underground structures (basements, etc.) where it can accumulate and pose an explosion hazard. Currently, there are no structures at the site (excluding the small yard waste attendant's building). In addition, the nearest off-site buildings that may contain underground structures are approximately 0.25 mile from the site. Planned future use of the site includes a nature trail/park. If future use were to include the construction of any buildings with underground structures, then the presence of subsurface methane should be considered. Additionally, sampling along the site perimeter (particularly on the south side of the site) should be considered to determine if elevated levels of methane are migrating off site. In the future, Iowa Department of Natural Resources (IDNR) and EPA (solid waste management personnel) may provide additional guidance concerning subsurface methane associated with landfills.

Groundwater samples collected at the site contained total arsenic, chromium, and lead at concentrations that exceeded their respective Iowa Statewide Standards for protected groundwater sources. None of the groundwater samples contained dissolved metals above its Iowa Statewide Standards. The elevated concentrations of metals detected in the unfiltered samples (total metals) are likely attributable to suspended sediment in the samples and are not likely representative of groundwater quality in the site area. In addition, no reportable concentrations VOCs, polynuclear aromatic hydrocarbons (PAH), or TEH were detected in the groundwater samples. Based on the Phase II TBA groundwater sample results, it does not appear that shallow groundwater has been impacted by historical operations at the site.

1.0 INTRODUCTION

The Seagull Environmental Technologies Inc. (Seagull) Region 7 Mini-Superfund Technical Assessment and Response Team (Mini-START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase II Targeted Brownfields Assessment (TBA) of the Waverly Yard Waste site. The Waverly Yard Waste site encompasses 15 acres and is currently owned/operated by the City of Waverly as a yard waste collection facility. The site's address is 1301 8th Street SE, which is approximately 1.2 miles southeast of downtown Waverly, Iowa. The Waverly Yard Waste site will hereafter be designated as the "subject property" or "site". The City of Waverly applied for a Brownfields grant from EPA Region 7 for assessment of the site, which is targeted for development into a park with a walking trail. The following sections address the background and site history, Phase II TBA activities, presentation and evaluation of analytical results, and a discussion of findings and recommendations.

1.1 PURPOSE

The purpose of this Phase II TBA was to confirm or eliminate recognized environmental conditions (REC) specified in the Phase I TBA report for the site (Seagull 2009), determine the nature and extent of any soil and groundwater contamination, determine if elevated levels of methane gas are present in the subsurface, and assess threats to human health and the environment posed by any contamination and/or methane. RECs specified in the Phase I TBA report were primarily related to the historical use of the site as a solid waste landfill and as a shooting range by the Waverly Police Department.

1.2 SPECIAL TERMS AND CONDITIONS

No special terms or conditions were identified during the Phase II TBA.

2.0 BACKGROUND AND SITE HISTORY

This section provides a brief description of the site: the physical setting; site history and land use; adjacent land use; and a summary of the Phase I Targeted Brownfields Assessment (TBA) previously completed for the site.

2.1 SITE DESCRIPTION AND FEATURES

The subject property is located southeast of downtown Waverly and lies within the Cedar River floodplain. The south and east portions of the site are covered by wooded vegetation. The west and central portions of

the site are generally covered by gravel (to enable vehicles to access yard waste disposal and composting areas) or are covered with grass. The site is secured by a gate that is kept locked during non-business hours. A fence is located on the west, north, and south sides of the site. Access the site is from a gravel road off of 8th Street SE. One building approximately 100 square feet is located at the site. This building is used as an office by the yard waste attendant.

2.2 PHYSICAL SETTING

The site is located approximately 1.2 miles southeast of downtown Waverly, Bremer County, Iowa. The site address is 1301 8th Street SE. The site is accessed by 8th Street SE, which runs north and south along the west boundary of the site. The Cedar River forms the east boundary of the site.

The site is included on the Waverly, Iowa, U.S. Geological Survey (USGS) 7.5-minute topographic series map (USGS 1993) (see Appendix A, Figure 1). The site is located in the northeast quarter of Section 11, Township 91 North, Range 14 West. The coordinates for the approximate center of the site are 42.712141 degrees north latitude and 96.459050 degrees west longitude.

2.2.1 Geologic Setting

The site is located in Bremer County in northeast Iowa, in the Central Lowland physiographic province of the Interior Plains. The majority of the site contains soils characterized as Udorthents, which are moderately well drained. Udorthents soils are typically associated with areas of cut and fill, including sanitary landfills. Other soils present at the site are Waukee loam and Dickinson fine sandy loam (U.S. Department of Agriculture [USDA] 2009). Dickinson fine sandy loam, a very deep, well drained soil formed in glacial and alluvial deposits, is predominantly located on the southeastern portion of the site. Waukee loam, a very deep, well drained silt loam, is predominantly located in the southwestern portion of the site (USDA 2009). Geology in the region is generally characterized by unconsolidated alluvial deposits throughout the Cedar River floodplain. These deposits overlie Devonian-aged bedrock of the Cedar Valley Group, which consists primarily of dolomite, limestone, and chert (Iowa Department of Natural Resources [IDNR] 1998). Depth to bedrock at the site is approximately 50 feet below ground surface (bgs) (IDNR 1998).

2.2.2 Hydrogeology

The site is located in the Northeast Iowa Groundwater Province, where the Silurian-Devonian aquifer, in particular, the area along the Cedar River valley, is one of the most productive zones of any bedrock

aquifer in Iowa (IDNR 1998). This area is underlain by highly creviced and cavernous Devonian limestone, which provides a resource for recharge to the aquifer.

Regional groundwater flow in the Silurian-Devonian aquifer is to the southeast. Because the site lies within the Cedar River floodplain, local groundwater flow is likely to the south-southeast, following the flow of the river. In 2002, depth to groundwater in an irrigation well drilled at a soccer complex west of the site (across 8th Street SE) was 22 feet bgs (IDNR 2009). Total depth of that well is 115 feet bgs. The Seagull Phase I TBA included a search of federal and state water well databases and determined there are 113 registered wells (including private domestic wells, abandoned wells, test holes, and monitoring wells) within a 1-mile radius of the site (Seagull 2009).

2.2.3 Hydrology

Surface water either infiltrates into the ground at the site or flows southeast towards a low-lying drainage way along the west and south boundary of the site. This drainage way flows east to the Cedar River, which borders the site to the east.

2.3 SITE HISTORY AND LAND USE

The site was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. In addition, from 1971 to 1999, the southeast portion of the property was also used as a shooting range (for pistols and rifles) by the Waverly Police Department.

2.4 ADJACENT PROPERTY USE

Adjacent properties include an undeveloped field to the north and an agricultural field to the south (see Appendix A, Figure 2). The Cedar River borders the site to the east. The site is bounded to the west by 8th Street SE. West of the site, beyond 8th Street SE, is a soccer complex with numerous fields and a gravel parking lot. South of the soccer complex is the City of Waverly's waste water treatment plant.

2.5 SUMMARY OF PREVIOUS ASSESSMENTS

In November 2009, a Phase I TBA was completed by Seagull. Several significant findings were identified from review of historic records, environmental database review, site reconnaissance, or interviews.

- The subject property was formerly used as the City of Waverly's solid waste landfill from 1948 to 1971. The landfill was closed in 1971, and the property was converted to its current use as a yard waste disposal facility. Historical use of the subject property as a solid waste landfill constitutes a REC to the site.
- The southeast portion of the subject property was formerly used as a shooting range from 1971 to 1999 (for pistols and rifles) by the Waverly Police department. Historical use of the subject property as a shooting range constitutes a REC to the site

The Phase I TBA identified RECs at the site that were related to historical site operations. Based on the identification of those RECs, a Phase II TBA was recommended for the site to confirm or eliminate the RECs, and determine the nature and approximate extent of contamination.

3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES

The following sections describe the scope of the Phase II TBA and field exploration and methods.

3.1 SCOPE OF THE ASSESSMENT

Mini-START field team members conducted Phase II TBA sampling at the site that included collection of surface soil, subsurface soil, soil gas, and groundwater samples. The samples were analyzed for contaminants commonly associated with solid waste landfill operations and shooting ranges — including volatile organic compounds (VOC), polynuclear aromatic hydrocarbons (PAH), total extractable hydrocarbons (TEH), metals (lead, in particular, associated with the shooting range), and landfill gases (methane, in particular). Photographs were taken to document the site activities (see Appendix B), which were also recorded in a site logbook (see Appendix C). The sampling was conducted in accordance with an approved Quality Assurance Project Plan (QAPP).

3.1.1 Conceptual Site Model and Sampling Plan

The proposed sampling scheme for collection of soil, soil gas, and groundwater samples incorporated biased/judgemental and transect sampling techniques, in accordance with the *Guidance for Performing Site Inspections under CERCLA*, Office of Solid Waste and Emergency Response (OSWER) Directive #9345.1-05, September 1992. Twelve subsurface soil, 66 surface soil, 11 soil gas, and five groundwater samples were collected from the site for analysis of chemical constituents. The subsurface soil, soil gas, and groundwater samples were collected using Geoprobe® direct-push technology equipment, in accordance with Region 7 EPA standard operating procedure (SOP) 4230.07A, Geoprobe® Operations. Quality control (QC) samples collected during the field activities included one water trip blank (laboratory

prepared), one equipment rinsate sample (of the Geoprobe® Screen Point 15 [SP 15] groundwater sampler), and one field blank. Sampling methods and activities are described in Section 3.2. A summary of samples collected during the Phase II TBA activities is included in Table 1.

3.1.2 Chemical Testing Plan

Phase II TBA activities included the collection of surface soil, subsurface soil, soil gas, and groundwater samples. Subsurface soil and groundwater samples collected during the Phase II TBA activities were analyzed by the following analytical methods: VOCs by Method 8260, TEH by Iowa Method OA-2, PAHs by Method 8270, and metals (except mercury) regulated under the Resource Conservation and Recovery Act (RCRA) by Methods 6010 (for soil) and 6020 (for water), and mercury by Methods 7471 (for soil) and 7470 (for water). Surface soil samples were field screened with an x-ray fluorescence (XRF) spectrometer, and six samples were submitted for laboratory confirmation analysis of total lead, along with the other RCRA metals (by Methods 6010 and 7471). Soil gas samples were field screened for methane, and five samples were submitted for laboratory confirmation analysis of methane by American Society for Testing and Materials (ASTM) Method D1945. All samples were submitted to Keystone laboratory in Newton, Iowa.

TABLE 1
SUMMARY OF SAMPLES COLLECTED DURING PHASE II TBA ACTIVITIES
WAVERLY YARD WASTE SITE – WAVERLY, IOWA

Sample Description	Sample Type	Total Number of Samples
Subsurface Soil	Field Samples	12
Surface Soil	Field Samples	66 (Field Screened) 6 (Laboratory Analyzed)
Soil Gas	Field Samples	11 (Field Screened) 5 (Laboratory Analyzed)
Groundwater	Field Samples	5
Water (Equipment Rinsate)	Quality Control Sample	1
Water (Field Blank)	Quality Control Sample	1
Water (Trip Blank)	Quality Control Sample	1

3.1.3 Deviations from the QAPP

Deviations from the QAPP and the rationale for these deviations are presented below:

One fewer soil gas sample was collected than proposed. In addition, soil gas samples were only collected from one depth per boring instead of two depths proposed in the QAPP. The deeper soil gas sample depth was not collected due to the presence of shallow groundwater

3.2 FIELD EXPLORATION AND METHODS

Field activities at the site were conducted on January 18 through 20, 2010. Seagull team members involved with the field activities were Greg Dillon, Quan Do, Joel Harvester, and Laura Moore.

3.2.1 Subsurface Soil Sampling

Subsurface soil samples were collected from 12 locations at the site (see Appendix A, Figure 3). At each of these boreholes, continuous soil cores were collected to refusal or the groundwater interface (ranging from 8 to 20 feet bgs) with a Geoprobe® Macro-Core soil sampler fitted with disposable polyvinyl chloride (PVC) liners. Following sample collection, the soil cores were immediately screened for VOCs with a photoionization detector (PID) and for metals (lead, in particular) with a XRF. It should be noted that due to the cold weather conditions during the field activities, the effectiveness of the PID was limited. From each borehole, one soil sample was collected from a 2-foot interval. The sampled interval was selected based on field screening results, visual observations, and sampler judgement. Individual soil cores were logged to determine lithology and soil characteristics. Boring logs are included as Appendix D. Following sample collection from the soil boring locations, the boreholes were backfilled with bentonite. Geoprobe® rods and samplers were decontaminated with a tap water wash and rinse between sampling locations.

The 12 subsurface soil samples were collected for analysis of VOCs, PAHs, TEH, and RCRA metals. Soil samples for analysis of VOCs were collected following EPA Method 5035 guidelines, which involved placing approximately 5 grams of soil into three 40-milliliter (mL) volatile organic analysis (VOA) vials pre-preserved with de-ionized water. The remaining soil was removed from the Geoprobe® Macro-Core liner and placed into a disposable aluminum pie pan, homogenized, and transferred to two 4-ounce glass jars for analysis of TEH, PAHs, and RCRA metals. All soil samples were stored in coolers maintained at or below 4 degrees Celsius (°C) until they were submitted to Keystone laboratory. Table 2 summarizes the sample identification numbers, locations, depths, and analyses for the soil samples.

3.2.2 Surface Soil Sampling

Surface soil samples were collected from 66 locations at the site to determine if historic activities (operation of the shooting range, in particular) have impacted those soils. To assess surface soil in the

former shooting range area, transect lines 200 feet in length and spaced 25 feet apart were established (see Appendix A, Figure 4). The transect lines were established to cover the geographic extent of the former shooting range area. Surface soil samples were collected from the upper 2 inches of soil at 20-foot intervals along those transect lines. In all, 44 surface soil samples were collected from the transect lines. Surface soil samples were also collected from each of the 12 Geoprobe® boring locations and from 10 additional locations in the southern and eastern portions of the site that are heavily wooded and not accessible with a Geoprobe® (see Appendix A, Figure 4).

From each of the surface soil sample locations, soil (collected from the upper 2 inches) was placed in a ziplock bag. The surface soil samples were transported back to a sample preparation facility at the Seagull office, where they were transferred to clean, dedicated aluminum pie pans and allowed to completely dry (because elevated moisture content can adversely affect XRF readings). Once dry, the samples were homogenized, passed through a number 10 (2 millimeter) sieve, and then screened for lead using an XRF. Three separate XRF readings were taken from each sample and the average was recorded. XRF results for lead in the screened samples ranged from 15 to 480 milligram per kilogram (mg/kg). XRF screening indicated that two of the 66 surface soil samples contained lead at concentrations greater than 400 mg/kg, which is the Iowa Statewide Standard established for lead. Sample SS-1-7 (collected from transect line 1 – location 7) contained lead at 480 mg/kg and SS-5-2 (collected from the east-southeast portion of the site) contained lead at 416 mg/kg (see Appendix A, Figure 4). Table E-1 in Appendix E contains the XRF screening results.

To ensure accuracy of the XRF, six surface soil samples were collected for laboratory confirmation analysis of total lead, along with other heavy metals (laboratory confirmation sample results are discussed in Section 4.2). The samples were selected to accurately represent the general range of lead concentrations indicated by XRF screening. All soil samples were stored in coolers maintained at or below 4 °C until they were submitted to Keystone laboratory.

3.2.3 Groundwater Sampling

Groundwater samples were collected from five temporary Geoprobe® wells that were installed at the site (see Appendix A, Figure 3). Groundwater sample locations were selected to cover the geographic extent of the site. At each temporary Geoprobe® well location, a Geoprobe® SP 15 groundwater sampling apparatus was driven below the water table, and a disposable 4-foot-long PVC screen deployed. Groundwater samples were collected through polyethylene tubing fitted with a check valve. New tubing was used for each sample to avoid cross-contamination from previous sampling locations. Geoprobe® rods

and samplers were decontaminated with a tap water wash and rinse between sampling locations.

Following sample collection from the temporary monitoring wells, the Geoprobe® rods were removed, and the boreholes were backfilled with bentonite.

The groundwater samples were collected for analysis of VOCs, PAHs, TEH, and total and dissolved RCRA metals. Samples for analysis of VOCs were collected in three 40-mL VOA vials preserved with hydrochloric acid (HCl). Samples for analysis of PAHs and TEH were collected in two 1-liter amber bottles. Water samples collected for analysis of RCRA metals (total and dissolved) were collected in two 500-mL plastic bottles. The water samples collected for total RCRA metals were preserved with nitric acid to a pH <2, and the samples for dissolved RCRA metals were collected unpreserved (to be filtered at the laboratory). All water samples were stored in coolers maintained at or below 4 °C until they were submitted to Keystone laboratory. Table 2 summarizes the sample identification numbers, locations, depths, and analyses for the groundwater samples.

3.2.4 Soil Gas Sampling and Field Screening

Soil gas samples were collected at 11 locations at the site (collocated with Geoprobe® soil borings) (see Appendix A, Figure 5). Each soil gas sample was collected by driving Geoprobe® steel rods to the desired sampling depth (ranging from 5.5 to 10 feet bgs), inserting disposable polyethylene tubing into the rod string, and securing the tubing to the bottom of the rods with an airtight fitting. The other (surface) end of the tubing was attached to a vacuum pump, which was used to purge the tubing of ambient air. About 2 to 5 liters of air was evacuated prior to collecting a sample. Samples were collected into 3-liter Tedlar bags connected to the evacuated tubing. Each of the soil gas samples was screened using a MultiRAE multigas detector equipped with a lower explosive limit (LEL) sensor that was calibrated to methane. Methane gas is commonly associated with landfills (as a result of decaying solid waste). Field screening results for methane ranged from 0% LEL (which corresponds to 0 parts per million [ppm] of methane) to greater than 100% LEL (which corresponds to a reading greater than 50,000 ppm). As a reference, the flammable range of methane is from 50,000 ppm to 150,000 ppm. Field screening results indicated soil gas samples collected from sample locations B-6, B-8, and B-9 contained methane concentrations greater than its LEL of 50,000 ppm. The highest concentrations of methane were detected in soil gas samples collected from the south-central portion of the site (see Appendix A, Figure 5). Table E-2 in Appendix E contains the field screening results for methane. Figure 5 in Appendix A shows the soil gas sample locations and corresponding field screening results for methane.

For confirmation purposes, five soil gas samples were submitted for laboratory analysis of methane (laboratory confirmation sample results are discussed in Section 4.4). The samples were selected to accurately represent the general range of methane concentrations indicated by field screening. The soil gas samples (collected in 3-liter Tedlar bags) were submitted to Keystone laboratory for analysis of methane.

TABLE 2
SUMMARY OF SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Sample Identification	Sample Location	Sample Depth (bgs)	Matrix	Analysis
SUBSURFACE SOIL				
B-1-SS-5.0-6.5	B-1	5-6.5 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-2-SS-8-9	B-2	8-9 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-3-SS-4.5-5.5	B-3	4.5-5.5 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-4-SS-8-9	B-4	8-9 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-5-SS-8-9	B-5	8-9 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-6-SS-5-6	B-6	5-6 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-7-SS-9-10	B-7	9-10 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-8-SS-8-9	B-8	8-9 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-9-SS-4-5	B-9	4-5 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-10-SS-5-6	B-10	5-6 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-11-SS-4-5	B-11	4-5 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
B-12-SS-8-9	B-12	8-9 feet	Subsurface soil	VOCs, PAHs, TEH & RCRA metals
SURFACE SOIL				
SS-1-4	Transect 1	0-2 inches	Surface soil	RCRA metals
SS-1-10	Transect 1	0-2 inches	Surface soil	RCRA metals
SS-1-7	Transect 1	0-2 inches	Surface soil	RCRA metals
SS-2-1	Transect 2	0-2 inches	Surface soil	RCRA metals
SS-2-6	Transect 2	0-2 inches	Surface soil	RCRA metals
SS-5-8	Transect 5	0-2 inches	Surface soil	RCRA metals
GROUNDWATER				
B-1-GW	B-1	27-31 feet	Water	VOCs, PAHs, TEH & RCRA metals (total and dissolved)
B-3-GW	B-3	20-24 feet	Water	VOCs, PAHs, TEH & RCRA metals (total and dissolved)
B-7-GW	B-7	20-24 feet	Water	VOCs, PAHs, TEH & RCRA metals (total and dissolved)
B-9-GW	B-9	20-24 feet	Water	VOCs, PAHs, TEH & RCRA metals (total and dissolved)
B-11-GW	B-11	20-24 feet	Water	VOCs, PAHs, TEH & RCRA metals (total and dissolved)
SOIL GAS				
B-4-SG-8	B-4	8 feet	Soil gas	Methane
B-5-SG-8	B-5	8 feet	Soil gas	Methane
B-8-SG-8	B-8	8 feet	Soil gas	Methane

Sample Identification	Sample Location	Sample Depth (bgs)	Matrix	Analysis
B-9-SG-8	B-9	8 feet	Soil gas	Methane
B-2-SG-5.5	B-2	5.5 feet	Soil gas	Methane

Notes:

bgs Below ground surface

PAH Polynuclear aromatic hydrocarbons

RCRA Resource Conservation and Recovery Act

TEH Total extractable hydrocarbons

VOC Volatile organic compounds

4.0 EVALUATION AND PRESENTATION OF RESULTS

Sections 4.1 through 4.4 summarize the analytical data for the soil (surface and subsurface), soil gas, and groundwater samples collected during the Phase II TBA. Soil and groundwater sample results from this Phase II TBA were compared to their respective Iowa Statewide Standards. These standard values have been established by IDNR to represent concentrations of contaminants in a specific medium of an affected area at which normal, unrestricted exposure through a specific exposure pathway is considered unlikely to pose a threat to human health (IDNR 2010). Soil and groundwater sample results for applicable VOCs and TEH (analyzed by Iowa Method OA-2) were also compared to the IDNR Tier 1 Guidance for Site Assessment of Leaking Underground Storage Tanks (IDNR 1996). Soil gas field screening and laboratory results for methane were compared to its LEL. The complete analytical data packages are included as Appendix F. Appendix E contains tables summarizing the analytical results. Appendix G contains an updated Brownfields Property Profile Form.

4.1 SUBSURFACE SOIL SAMPLES

Twelve subsurface soil samples were submitted to Keystone laboratory for analysis of VOCs, PAHs, TEH, and RCRA metals (including mercury).

Volatile Organic Compounds

Six of the 12 subsurface soil samples contained reportable concentrations of VOCs. In those samples, the following nine VOCs were detected: acetone, 2-butanone, chloroform, ethylbenzene, naphthalene, tetrachloroethylene (PCE), toluene, 1,1,1-trichloroethane (1,1,1-TCA), and xylenes (total). Concentrations of the detected VOCs ranged from 0.001 to 0.171 mg/kg. Acetone was detected at the highest concentration (0.171 mg/kg). It should be noted that acetone is a common laboratory contaminant. None of the VOCs were detected at concentrations that exceeded their respective Iowa Statewide Standards. Table E-3 in Appendix E summarizes the analytical data for VOCs in the soil samples.

Polynuclear Aromatic Hydrocarbons

None of the 12 subsurface soil samples contained any reportable concentrations of PAHs.

Total Extractable Hydrocarbons

Five of the 12 subsurface soil samples contained reportable concentrations of TEH. TEH as waste oil was the only TEH compound detected in those samples. TEH as waste oil was detected at concentrations that ranged from 37 to 417 mg/kg. Sample B-6 (collected from 5 to 6 feet bgs) contained the highest concentration, which was 417 mg/kg. Currently, there are no Iowa regulatory limits established for TEH as waste oil in soil. Table E-3 in Appendix E summarizes the analytical data for TEH in the soil samples.

RCRA Metals

All 12 of the subsurface soil samples contained RCRA metals. In those samples, the following RCRA metals were detected: arsenic, barium, cadmium, chromium, lead, mercury, and silver (only selenium was not detected). Lead was the only metal detected at a concentration above its Iowa Statewide Standard. The sample collected from B-7 (from 9 to 10 feet bgs) contained lead at 462 mg/kg, exceeding its Iowa Statewide Standard of 400 mg/kg. None of the other RCRA metals were detected at concentrations that exceeded their respective Iowa Statewide Standards. Table E-4 in Appendix E summarizes the analytical data for metals in the soil samples.

4.2 SURFACE SOIL SAMPLES

Six surface soil samples were submitted for analysis of RCRA metals. All of the soil samples contained reportable concentrations of RCRA metals. In those samples, the following RCRA metals were detected: arsenic, barium, cadmium, chromium, lead, and mercury. Lead was the only RCRA metal detected above its Iowa Statewide Standard. Sample SS-1-7 (collected from transect line 1 – location 7) contained lead at 508 mg/kg (see Appendix A, Figure 4). This laboratory result compares to a field screening XRF result of 480 mg/kg for lead in this sample. Table E-4 in Appendix E summarizes the analytical data for metals in the surface soil samples.

Confirmation of XRF Data

The XRF unit used during the project was checked daily with known standards. To ensure accuracy of the XRF, six samples (representing approximately 10 percent of the samples screened with the XRF) were submitted for laboratory confirmation analysis of RCRA metals (lead, in particular). The samples were

selected to accurately represent the spatial distribution of lead contamination at the site, as well as to cover the general range of lead concentrations indicated by XRF screening. Table E-1 in Appendix E summarizes the XRF screening results, along with the laboratory results for total lead. For each sample, the laboratory result for lead was recorded in a spreadsheet, along with the associated XRF reading, so that a regression coefficient (r^2) could be calculated for the two sets of data. The r^2 value was 0.9812, greater than the minimum value of 0.7 required for the remaining XRF data to be considered quantitative screening level data (EPA 1998). Correlation data are provided in Appendix H

4.3 GROUNDWATER SAMPLES

Five groundwater samples were submitted to Keystone laboratory for analysis of VOCs, PAHs, TEH, and RCRA metals (total and dissolved, including mercury).

Volatile Organic Compounds

None of the groundwater samples contained any reportable concentrations of VOCs.

Polynuclear Aromatic Hydrocarbons

None of the groundwater samples contained any reportable concentrations of PAHs.

Total Extractable Hydrocarbons

None of the groundwater samples contained any reportable concentrations of TEH.

RCRA Metals

All five of the groundwater sample contained reportable concentrations of RCRA metals. The following RCRA metals were detected in the samples: arsenic, barium, chromium, lead, and mercury. Total arsenic, chromium, and lead were detected at concentrations that exceeded their respective Iowa Statewide Standards for protected groundwater sources. The groundwater samples analyzed for dissolved metals only contained detectable levels of barium. None of the barium concentrations were above its respective Iowa Statewide Standard. The elevated concentrations of metals detected in the unfiltered samples (total metals) are likely attributable to suspended sediment in the samples and are not likely representative of groundwater quality in the site area. Table E-5 in Appendix E summarizes the analytical data for metals in the groundwater samples.

4.4 SOIL GAS – METHANE SAMPLES

Four of the five soil gas samples submitted for analysis contained reportable concentrations of methane. Methane was detected in those four samples at concentrations that ranged from 69.4 to 166,000 milligrams per cubic meter (mg/m³). After converting the laboratory results from mg/m³ to ppm, those concentrations range from 105 to 253,004 ppm. In general, the field screening results for methane correlated well with the laboratory results for methane. Laboratory results determined the soil gas samples collected from B-8 and B-9 contained the highest concentrations of methane, which were 33,300 and 166,000 mg/m³, respectively (which converts to 50,296 and 253,004 ppm, respectively). As previously mentioned, the flammable range of methane is from 50,000 ppm to 150,000 ppm; therefore, the samples collected from B-8 and B-9 are just below and above the LEL for methane. The soil gas sample results indicated elevated levels of methane are present in the subsurface at the site, particularly along the south-central portion of the site (see Appendix A, Figure 5). Table E-2 in Appendix E contains the field screening results and corresponding laboratory results.

4.5 QUALITY CONTROL SAMPLES

The QC samples included a water trip blank, field blank, and equipment rinsate. Total barium, detected at 0.006 milligrams per liter (mg/L) in the equipment rinsate, was the only contaminant detected.

5.0 DISCUSSION OF FINDINGS AND RECOMMENDATIONS

This section addresses the findings and conclusions of the Phase II TBA activities, which includes RECs to the subject property, as well as the affected media and cleanup planning.

5.1 RECOGNIZED ENVIRONMENTAL CONDITIONS

This Phase II TBA has confirmed the following RECs to the subject property:

- A surface soil XRF survey completed at the site determined lead concentrations ranged from 15 to 480 mg/kg. XRF screening indicated that two of the 66 surface soil samples contained lead at concentrations greater than its Iowa Statewide Standard of 400 mg/kg. Samples SS-1-7 and SS-5-2 contained lead at 480 and 416 mg/kg, respectively.
- Subsurface soil samples collected from the site contained VOCs and TEH; however, all of the detected concentrations of those compounds were well below their respective health-based standards. In addition, subsurface soils contained RCRA metals; however, lead was the only RCRA metal detected at a concentration above its respective Iowa Statewide Standard. Sample B-7 (collected from 9 to 10 feet bgs) contained lead at 462 mg/kg, which exceeded its Iowa Statewide Standard of 400 mg/kg.

- In groundwater samples collected from the site, total arsenic, chromium, and lead were detected at concentrations that exceeded their respective Iowa Statewide Standards for protected groundwater sources. Groundwater samples analyzed for dissolved metals only contained detectable levels of barium; however, none of the barium concentrations were above its respective Iowa Statewide Standard.
- Soil gas samples collected from the site were determined to contain elevated concentrations of methane. Field screening results for methane ranged from 0% LEL (which corresponds to 0 ppm of methane) to greater than 100% LEL (which corresponds to a concentration greater than 50,000 ppm). The flammable range of methane is from 50,000 ppm to 150,000 ppm. For confirmation purposes, five soil gas samples were submitted for laboratory analysis of methane. In those confirmation samples, methane was detected at concentrations that ranged from 69.4 to 166,000 mg/m³.

5.2 AFFECTED MEDIA AND CLEANUP PLANNING

Based on sampling conducted during this Phase II TBA, both surface and subsurface soil appears to have been impacted by historical operations at the site. A surface soil survey completed at the site (in particular, in the former shooting range area) indicated that two of the 66 surface soil samples collected contained lead greater than its Iowa Statewide Standard of 400 mg/kg. Samples SS-1-7 and SS-5-2 contained lead at 480 mg/kg and 416 mg/kg, respectively. Sample SS-1-7 was collected from the former shooting range area, and SS-5-2 was collected from the east-southeast portion of the site. Of the 66 surface soil samples collected, six were submitted for laboratory analysis of total lead (and the other RCRA metals) to confirm the XRF screening results (for lead). In those six samples, lead was the only RCRA metal detected above its respective Iowa Statewide Standard of 400 mg/kg. The laboratory sample for SS-1-7 contained lead at 508 mg/kg. This result corresponds well with the field screening XRF result for lead for the sample, which was 480 mg/kg. The presence of lead above 400 mg/kg in the surface soil is likely attributed to its past operation as a solid waste landfill. Remnants of historic landfill operations, including old car frames and other pieces of scrap metal, are located along the east-southeast boundary of the site. It should be noted that none of the surface soil samples (particularly in the former shooting range area) contained lead shot or lead fragments that could be associated with past shooting range activities. Because only two of the 66 surface soil samples contained lead above its health-based standard, it appears historical operations at the site have not impacted surface soil at the site in a wide-spread manner.

Subsurface soil contained VOCs, TEH, and RCRA metals; however, only lead was detected above an established health-based standard. The sample collected from B-7 (collected from 9 to 10 feet bgs) contained lead at 462 mg/kg, which exceeds its Iowa Statewide Standard of 400 mg/kg. None of the other RCRA metals were detected at concentrations that exceeded their respective Iowa Statewide Standards. The concentration of lead in B-7 could be attributable to fill material associated with the former solid waste

landfill. Since none of the other subsurface soil samples contained any elevated concentrations of lead (or other RCRA metals), no wide-spread contamination is indicated.

Soil gas samples collected during this Phase II TBA from locations across the site determined that elevated concentrations of methane are present in the subsurface. Field screening results from 11 soil gas samples indicated methane concentrations ranged from 0% LEL (which corresponds to 0 ppm of methane) to greater than 100% LEL (which corresponds to greater than 50,000 ppm). The flammable range of methane is from 50,000 ppm to 150,000 ppm. Based on the screening results, soil gas samples collected from B-6, B-8, and B-9 contained methane concentrations greater than its LEL of 50,000 ppm. Five samples were submitted for laboratory analysis of methane to confirm the field screening results. In those samples, methane concentrations ranged from 69.4 to 166,000 mg/m³. In general, the field screening results for methane correlated well with the laboratory results for methane. Laboratory results determined the soil gas samples collected from B-8 and B-9 contained the highest concentrations of methane, which were 33,300 and 166,000 mg/m³, respectively. After converting the laboratory results from mg/m³ to ppm, those concentrations range from 105 to 253,004 ppm. Laboratory results determined the soil gas samples collected from B-8 and B-9 contained the highest concentrations of methane, which were 33,300 and 166,000 mg/m³, respectively (which converts to 50,296 and 253,004 ppm, respectively). Based on the field screening and laboratory results, the highest concentrations of methane were detected in the south-central portion of the site. Methane gas is commonly associated with landfills (as a result of decaying solid waste). Hazards associated with methane gas include its migration through the subsurface into underground structures (basements, etc.) where it can accumulate and pose an explosion hazard. Currently, there are no structures at the site (excluding the small yard waste attendant's building). In addition, the nearest off-site buildings that may contain underground structures are approximately 0.25 mile from the site. Planned future use of the site includes a nature trail/park. If future use were to include the construction of any buildings with underground structures, then the presence of subsurface methane should be considered. Additionally, sampling along the site perimeter (particularly on the south side of the site) should be considered to determine if elevated levels of methane are migrating off site. In the future, IDNR and EPA (solid waste management personnel) may provide additional guidance concerning subsurface methane associated with landfills.

Groundwater samples collected at the site contained total arsenic, chromium, and lead at concentrations that exceeded their respective Iowa Statewide Standards for protected groundwater sources. None of the groundwater samples contained dissolved metals above Iowa Statewide Standards. The elevated concentrations of metals detected in the unfiltered samples (total metals) are likely attributable to

suspended sediment in the samples and are not likely representative of groundwater quality in the site area. In addition, no reportable concentrations VOCs, PAHs, or TEH were detected in the groundwater samples. Based on the Phase II TBA groundwater sample results, it does not appear that shallow groundwater has been impacted by historical operations at the site.

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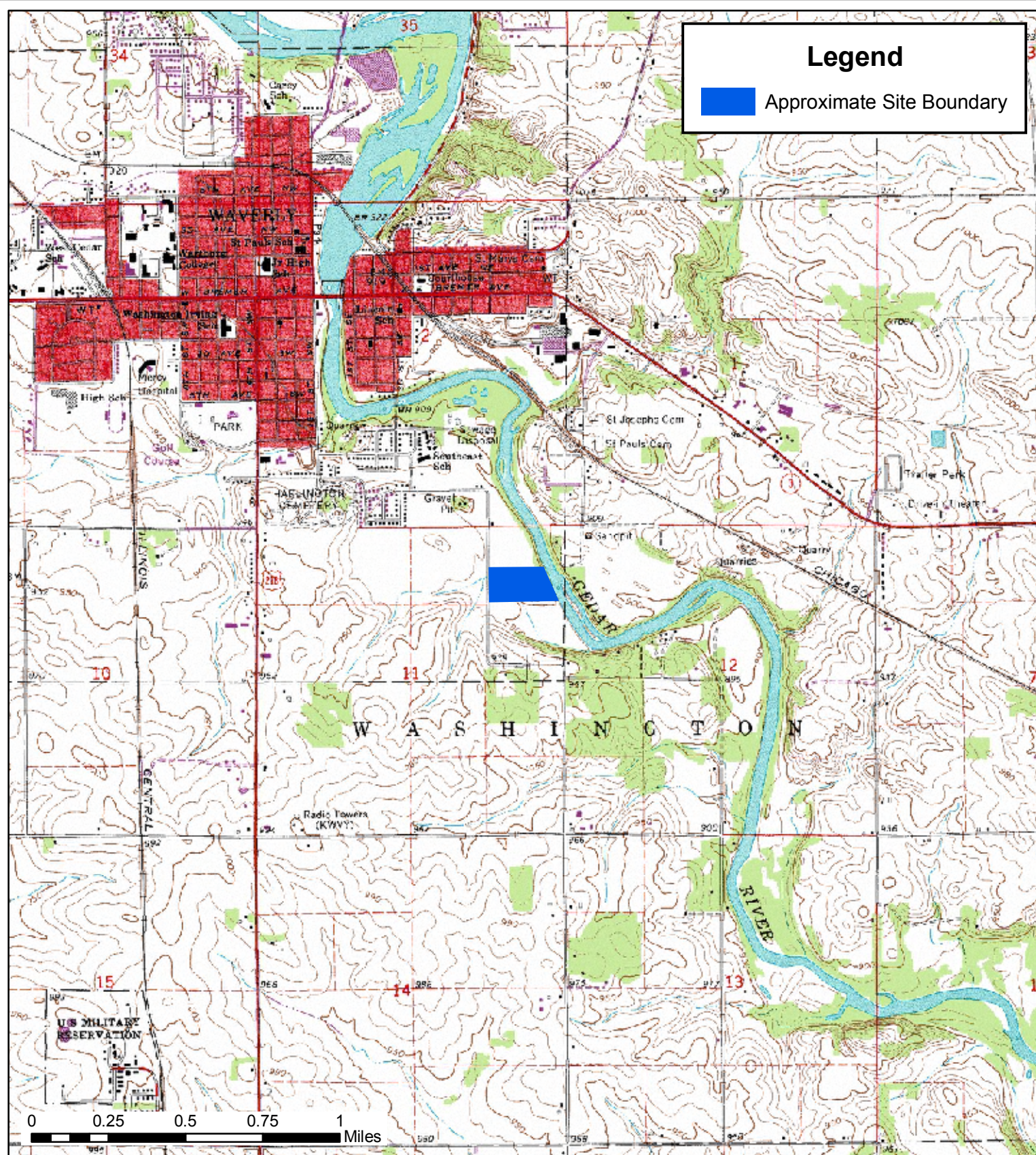
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APPENDIX A

FIGURES



Seagull Environmental Technologies, Inc.

Date: March 2010

Project No: EPS70901.0008



Figure 2
Site Layout Map

Waverly Yard Waste Site, Waverly, Iowa



Seagull Environmental Technologies, Inc.

Source: U.S. Department of Agriculture

Date: March 2010

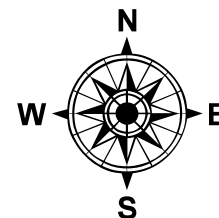
Project No: EPS70901.0008



Figure 3
Soil and Groundwater Sample Location Map

Waverly Yard Waste Site, Waverly, Iowa

Seagull Environmental Technologies, Inc.



Legend

Approximate Site Boundary

Sample Type

- Soil
- Soil and Groundwater

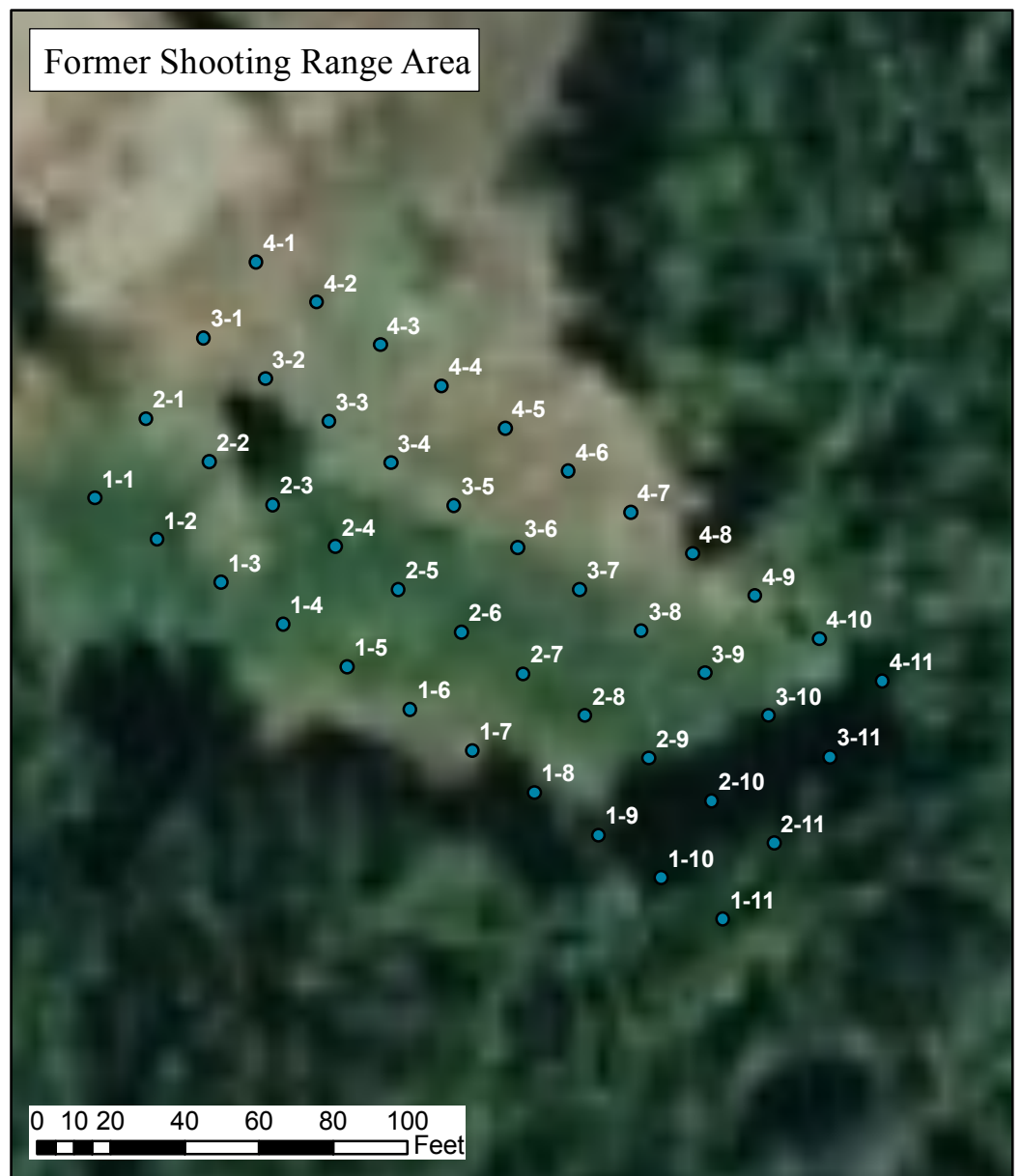
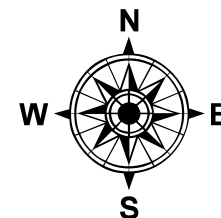


Figure 4
Surface Soil Sample Location Map

Waverly Yard Waste Site, Waverly, Iowa



Seagull Environmental Technologies, Inc.



Legend

- Approximate Site Boundary
- Former Shooting Range Area (See Inset)
- Surface Soil Sample location

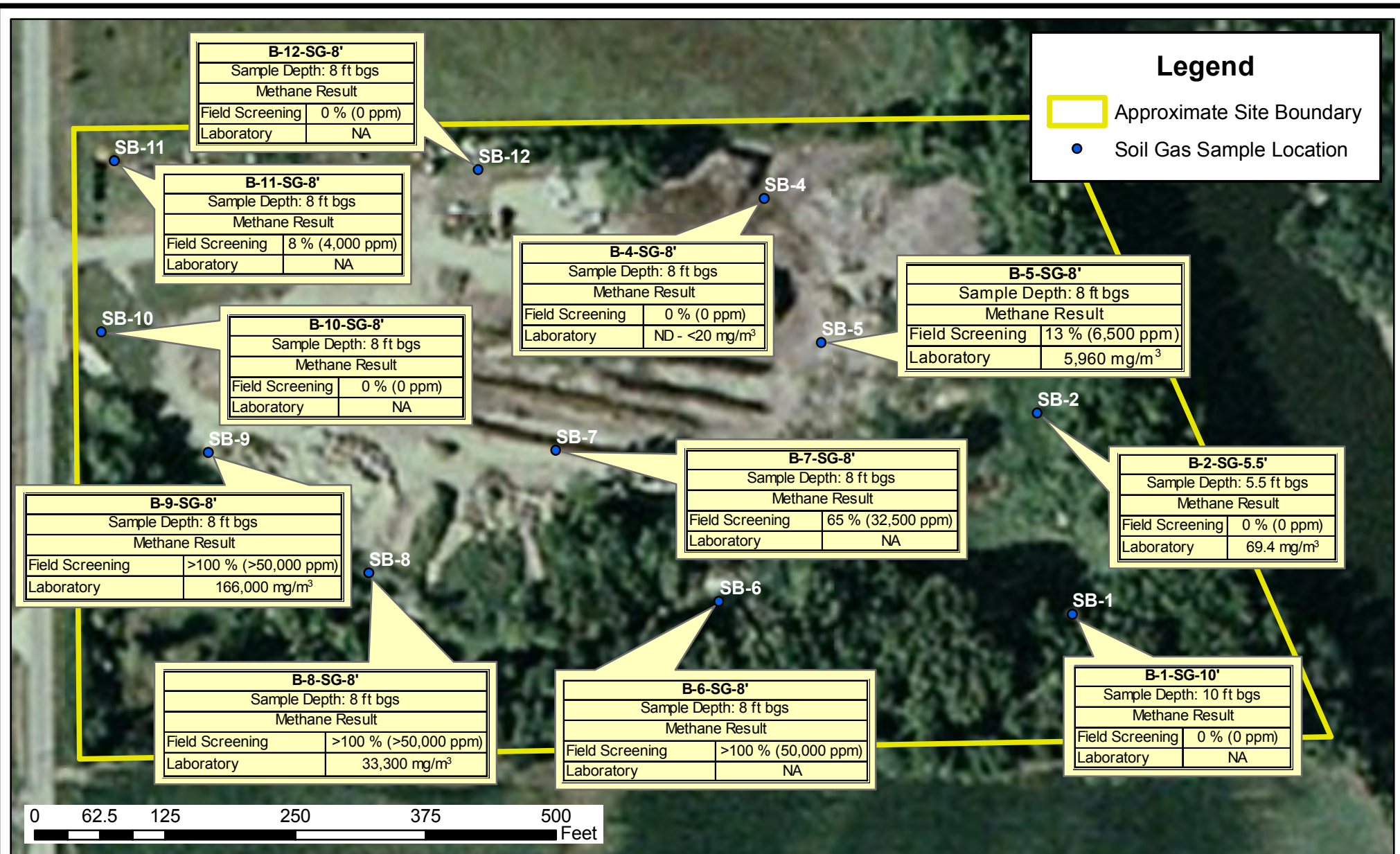
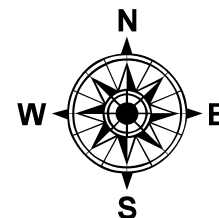


Figure 5
Soil Gas Sample Location Map

Waverly Yard Waste Site, Waverly, Iowa



Seagull Environmental Technologies, Inc.



mg/m³ Milligrams per cubic meter
 ppm Parts per million
 NA Not applicable
 > Greater than
 % Percent

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION



Waverly Yard Waste Site

Waverly, Iowa

Seagull Project No. EPS70901.0008



Client: Environmental Protection
Agency Region 7

Description: Photograph of Mini-Superfund Technical Assessment and
Response Team (Mini-START) personnel collecting surface
soil samples at the site.

Photograph
Number: 1

Direction: West

Photographer: Greg Dillon

Date: 01/18/2010



Client: Environmental Protection
Agency Region 7

Description: Photograph of the former shooting range area at the site
where transect lines were established for surface soil
sampling.

Photograph
Number: 2

Direction: Southeast

Photographer: Joel Harvester

Date: 01/20/2010



Waverly Yard Waste Site

Waverly, Iowa

Seagull Project No. EPS70901.0008



Client: Environmental Protection
Agency Region 7

Description: Photograph of Mini-START personnel collecting a soil gas
sample from SB-12.

Photograph
Number: 3

Direction: North

Photographer: Joel Harvester

Date: 01/20/2010



Client: Environmental Protection
Agency Region 7

Description: Photograph of the former shooting range area at the site
where transect lines were established for surface soil
sampling.

Photograph
Number: 4

Direction: Southeast

Photographer: Joel Harvester

Date: 01/20/2010

APPENDIX C
SITE LOGBOOK

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...for outdoor writing people."



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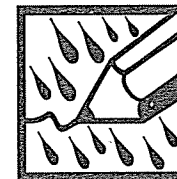
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Mini-START

TO 008

8-31-09

To 0008

1300- Seagull employee Jeff Pritchard departs Kansas City for Waverly, Iowa site visit. Visit is being conducted to ~~recon~~^{SP} conduct project meeting and site visit for the EPA-Regional Mini-START project called the Waverly Yard Waste site located in Waverly, Iowa.

- Project will involve the completion of a Phase I and Phase II based off the findings from the Phase I.

1800- Arrive in Waverly, Iowa

- End of day

Joe P
8-31-09

9-1-09

To 0008

800- Pritchard mobilizing to the city of Waverly, Iowa.

830- Begin visual reconnaissance of the site area. Property is currently a City of Waverly Yard Waste site - which is open to city residents to drop off yard waste for disposal-recycle. Subject property is located at 1301 8th Street SE, located in Southeast corner of town.

Property is ~ 15 acres in size.

- Mobile Recon of site area identifies property south of site is a corn field, east is the Cedar River. West of the site is 8th St. SE end a soccer field complex further west, north is an undeveloped grass field. located SW of the site is the City of Waverly Wastewater treatment plant

930- Continue mobile recon of site area

1010- Pritchard stops at USDA office to

see if they have any aerial photos of site area - photos from 1979 + 1990 they have - but we not ~~take~~ ^{take} them

9-1-09

To 0008

1040- Continue recon. Golf course and residential housing are located further to the south west.

Major commercial facilities are located west of site along 4th Street SW.

1050- Meet City of Waverly city Engineer Mike Cherry at the site to conduct site walk. Mr. Cherry is the point of contact for the City of Waverly (owner of this Terminal Brownfields Assessment Phase I + Phase II).

1100- Begin site walk to view entire site, discuss site activities, historical activities, and review site photographs.

- Summary of site visit discussion is as follows:

Mr. Cherry has been employed by the City of Waverly for ~12 years.

~~using the yard waste for (site)~~ ^{OP}

Currently the 15-acre property is used for disposal of

9-1-09

9-1-09

To 0008

yard waste by the City of Waverly and city residents.

In addition - the property accepts electronic items (TVs, refrigerators, washers, etc.)

All vegetation debris is compressed on site which is then available to city residents free of charge. White E-Goods are picked up by a city contractor and properly recycled and/or disposed of - all freon is recovered by this contractor.

- The city also used the lot to store truck equipment/snow plows and some concrete culverts. One small building is located at the site. It is a wood frame building about ~100 sq ft in size. This building is used by the Yard Waste attendant when the site is receiving waste.

9-1-09

9-1-09

To 0008

11:00 continued ~

see discussion summary:

Mr. Cherry states that the property was operated as a City Solid Waste Landfill from 1948 to 1971. Then became a

yard waste disposal facility from 1971 to present. Also

from 1971 to 1989 the Waverly

Police Department used the

southeast corner of the property as a shooting range. A berm

exists that runs along the east side

of the property - the Cedar

River is located beyond (east)

of that berm. A ^{go} chain fence

is located along the north and

east side of ^{go} the property,

although it is partially down

by the entry to the property.

A locked Gate/Fence secures the only road into the property.

9-1-09

9-1-09

To 0008

Site Visit discussion continued -

- Prior to 1998 - all yard waste was burned at the site - since that time it has been composted.

Also it is believed that the

majority of solid waste was burned while the landfill was active. A small elevation difference appears at the site - the west side of the property is higher than the east side.

All site drainage would flow to the southeast corner

of the site. A drainage way runs along the south side of the site.

- the only utility at the site is electric which comes underground to the attendant building.

A power pole with light is also located outside the building.

9-1-09

9-1-09

TO 0008

Site visit discussion continued -

- The site is open in the middle area - gravel covered surface + rock with wooded areas along the south and east side of property. Waste remains - old car frame etc., are visible on the east boundary of site - near the Cedar River.

- Plans at the site are to turn the property into a City Green Space - with a walking trail. The city will remove old concrete that is buried along south side of property ~~etc.~~ to allow for reshaping of site.

- The yard waste facility will close operations at the end of 2009 and a new facility will open at another location in the Spring, 2010.


9-1-09

9-1-09

TO 0008

Site visit discussion continued.

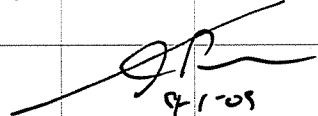
- The on-site attendant building will be moved to the new yard waste site - so the TBA does not need to address that building.

- Last year during the Summer Flood the entire site was under water - during the cleanup efforts the property was used as a Household Hazardous Waste (HHW) staging area ~~etc.~~.

- Mr. Cherry states that no LUSTs or other hazardous materials are stored at the site. No electrical equipment containing PCBs are located at the site.

- See Site Visit Document for additional details.

2a - Complete site visit - Photo documentation was collected and photolog is included in site visit document.


9-1-09

9-109

TO over

1230- Pritchard completes site
documentation and completes
recon of site area

1300- Depart Waverly for
return to KC

1800- Arrive in KC - End
of day

1/18/10 OVERCAST, FOGGY, 30° CALM

0800 CREW AT T+ OFFICE TO LOAD

VEHICLES + DEPART FOR WAVERLY

L MOORE, G DILLON, J HARVESTER, & DO

1230 LUNCH

1600 AT SITE SAFETY MEETING

1640 SETTING UP GEOPROBE AT B-1, LOCATED
IN SHOOTING RANGE AREA

1652 AT 10' BG5 SCREEN WITH PID

0.0 PPM COLLECT SAMPLE IN TEDLAR BAG

JH & GD ARE COLLECTING SURFACE
SOIL SAMPLES IN THE WOODED AREA

LOCATIONS

1732 AT 20' BG5 B-1 COLLECT

B-1-SG-20

1755 COULD NOT COLLECT SG - WATER

ON END OF SAMPLING TUBE - SOIL
IS LIKELY TOO WET

1757 SURFACE SOIL SAMPLES S-1 TO S-4
HAVE BEEN COLLECTED

1820 PREPARE FIELD BLANK SAMPLE

1835 END OF DAY

RAMON MOORE

1/19/10 18°, FOGGY, CALM

0730 MEET IN LOBBY LM, AD, GD + JH
SAFETY MEETING

0755 AT SITE

0825 SET UP AT B-1

0830 START B-1

0855 AT 16' BGS COLLECT B-1-SS-5-6.5

0915 AT 31' BGS WL 20' BGS

0920 COLLECT B-1-GW- BACKFILL BH

0950 SET UP AT B-2

0955 START B-2

1005 AT 12' BGS COLLECT B-2-SS-8-9

BACKFILL BH

1015 SET UP AT B-3

1015 START B-3

1025 AT 8' BGS SCREEN SOIL GAS

DRAGER READING 0.0 ppm

MULTI RATE READING 0.8 ppm

1030 START B-3 SOIL BORING

1040 AT 12' BGS COLLECT B-3-SS-4.5-5.5

1050 COLLECT B-3-GW SCREENED 20'-24' BGS

BACKFILL BH

1105 SET UP AT B-4

1110 START B-4

1125 AT 12' BGS B-4-SS-8-9

1/19/10

BACKFILL BH

1150 LUNCH

1225 START B-5

1245 AT 12' BGS COLLECT B-5-SS-8-9

BACKFILL BH

1255 START B-6 - HAD TO MOVE

1305 REFUSAL AT 8' BGS COLLECT

B-6-SS-5-6

BACKFILL BH

1315 SET UP AT B-7 - START

1330 AT 12' BGS COLLECT B-7-SS-9-10

BACKFILL BH

1340 AT B-8 HAVE TO OFFSET - REFUSAL

1355 AT 12' BGS COLLECT B-8-SS-8-9

BACKFILL BH

1410 START B-9

1415 AT 8' BGS COLLECT B-9-SS-5-6

BACKFILL BH

1425 START B-10

1435 TD AT 12' BGS COLLECT B-10-SS-4-5

BACKFILL BH

1445 START B-11

1450 AT 8' BGS COLLECT B-11-SS-4-5

BACKFILL BH

1500 START B-12

1/19/10

1510 AT 12' BG7 COLLECT B-12-S8-
8'-9' BACKFILL B7R

1525 DEPART FOR MOTEL TO DROP
SAMPLES OFF FOR FED-EX

1600 START B-11

1615 COLLECT B-11 - GW + QC SAMPLES

BACKFILL B7H [SCREENED 20'-24' BG5]

1625 START B-9 - GW

1635 COLLECT B-9-GW SCREENED 20'-24' BG5

1700 START B-7-GW

1710 COLLECT B-7-GW^m NOT ENOUGH
WATER TO COLLECT SAMPLE. DECON

JH HAS BEEN COLLECTING SURFACE SOIL
SAMPLES. COLLECTED 5-S TO 5-10, +
2 TRANSECTS

DECON

1755 OFF SITE

Anna Moore

1/20/10 23°, OVERCAST, 5-15 MPH WIND

0730 CREW (LM, RD, GD & JH) MEET
IN LOBBY. SAFETY MEETING

0750 AT SITE GD & JH WILL BE
COLLECTING SURFACE SAMPLES

0755 SET UP AT B-7

0800 START B-7

0820 COLLECT B-7-GW SCREEN 28'-32' BG5
BACKFILL B7H DECON

0840 COLLECT EQUIPMENT BLANK

0900 COLLECT B-7-SG-8' BACKFILL B7H

0915 START B-6-SG

0930 COLLECT B-6-SG-8' BACKFILL B7H DECON

0940 START B-2-SG

0950 AT 8' ATTEMPTED TO COLLECT SG SAMPLE
TEDLAR BAG, EMPTY

PULL RODS TO 5.5' STILL NO SG ATTEMPT
TO COLLECT SG WITH DIFFERENT BAG

1025 COLLECT B-2-SG-5.5

STARTING TO SLEET

SPOKE WITH JPRITCHARD REGARDING THE
DETERIORATING WEATHER CONDITIONS. THE

~~DECISION~~ ^{IN PM} WE WILL GO TO THE TYLER DUDA
SITE AFTER COMPLETING FIELD WORK HERE

1025 GO CK OUT OF MOTEL

1/20/10

1115 START B-4

1130 COLLECT B-4-SG-8' BACKFILL BH

1135 START B-5-SG

1145 COLLECT B-5-SG-8' BACKFILL BH
DECON

1155 START B-8-SG

1205 COLLECT B-8-SG-8' BACKFILL BH

1210 START B-9-SG

1220 COLLECT B-9-SG-8' BACKFILL BH
DECON

1230 START B-10-SG

1235 COLLECT B-10-SG-8' BACKFILL
BH

1245 START B-11-SG

1250 COLLECT B-11-SG-8' BACKFILL BH
DECON

1300 START B-12-SG

SURFACE SOIL SAMPLING COMPLETE. JH TAKING
PHOTOS OF SAMPLING LOCATIONS1310 COLLECT B-12-SG-8' BACKFILL BH
DECON1330 DEPART SITE FOR GRONOV CENTER
TYLER OUDA SITE
XANNA MAOUL

APPENDIX D
BORING LOGS



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 0830
Logged by: Laura Moore

Boring No: B-1
Total Depth (ft): 20.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	3.1/4.0	0.0		Silt, some clay, reddish black (2.5YR2.5/1), damp, low plasticity	<586 ppm Pb
2		0.0		Silt, some clay, reddish black (2.5YR2.5/1) to yellowish red (5YR4/6), damp, low plasticity	
3		0.0			
4	3.2/4.0	0.0	B-1-SS-5-6.5	Sand, some silt, reddish black (2.5YR2.5/1), moist to damp, medium density, fine grained	<12 ppm Pb
5				moist to wet	
6					
7	NR	0.0	SS-8-9		<19 ppm Pb
8					
9				Sand, with silt, reddish black (2.5YR2.5/1), moist to wet, medium density, fine grained	
10	3.2/4.0	0.0			
11					
12					
13	4.0/4.0				



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site

Project No: EPS70901.0008

Boring No: B-1

Total Depth (ft): 20.0'

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
14	4.0/4.0			Sand, with silt, reddish black (2.5YR2.5/1), wet, medium density, fine grained	
15				-----	
16				Sand, reddish black (2.5YR2.5/1), wet, medium density, poorly sorted	
17	4.0/4.0				
18					
19					
20				TD = 20.0' bgs	
21					
22					
23					
24					
25					
26					



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 0955
Logged by: Laura Moore

Boring No: B-2
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	1.4/4.0	0.0		Silt, some clay, some fine gravel, reddish black (2.5YR2.5/1), damp, low plasticity	<16 ppm Pb
2	NR				
3					
4					
5	2.3/4.0	0.0			164 ppm Pb
6				Sand, with silt, brown (7.5YR4/2), moist, medium density, fine grained	
7	NR				
8					
9	2.5/4.0	0.0	B-2-SS-8-9	Sand, some silt, reddish black (2.5YR2.5/1), moist, medium density, fine grained wet	
10					
11	NR				
12					
13				TD = 12.0' bgs	



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1015
Logged by: Laura Moore

Boring No: B-3
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1		0.0		Silt, with sand, gravel, reddish black (2.5YR2.5/1), damp, low plasticity	<12 ppm Pb
2	2.8/4.0	0.0			
3					
4	NR				
5	3.2/4.0	0.0	B-3-SS-4.5-5.5		<18 ppm Pb
6				Sand, with silt, reddish black (2.5YR2.5/1), wet, medium density, poorly sorted	
7					
8	NR				
9					
10	2.5/4.0			wet	
11	NR				
12					
13				TD = 12.0' bgs	



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1110
Logged by: Laura Moore

Boring No: B-4
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1		0.0		Silt, some sand, gravel, reddish black (2.5YR2.5/1), damp	
2	2.5/4.0	0.0		Sand, some silt, brown (7.5YR4/4), moist, loose, poorly sorted	329 ppm Pb
3					
4	NR				
5	2.0/4.0	0.0		Sand, variegated, moist, medium density, poorly sorted	
6					
7	NR				
8					
9	2.5/4.0	0.0	B-4-SS-8-9	wet	
10					
11	NR				
12					
13				TD = 12.0' bgs	



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1225
Logged by: Laura Moore

Boring No: B-5
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1		0.0		Silt, some sand, gravel, reddish black (2.5YR2.5/1), damp	<15 ppm Pb
2	2.7/4.0	0.0			
3					
4	NR				
5		0.0			
6	2.4/4.0	0.0			<16 ppm Pb
7					
8	NR				
9		0.0	B-5-SS-8-9		
10	2.4/4.0	0.0			<12 ppm Pb
11					
12					
13				TD = 12.0' bgs	



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1255
Logged by: Laura Moore

Boring No: B-6
Total Depth (ft): 8.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	3.0/4.0	0.0		Silt, some sand and gravel, reddish black (2.5YR2.5/1), moist, low plasticity, medium consistency	<16 ppm Pb
2		0.0			
3					
4	NR		B-6-SS-5-6		<21 ppm Pb
5	2.1/4.0	0.0			
6		0.0			
7	NR				
8				TD = 8.0' bgs	
9					
10					
11					
12					
13					



Seagull Environmental Technologies, Inc.

Project:	Waverly Yard Waste Site	Boring No:	B-7
Project No:	EPS70901.0008	Total Depth (ft):	12.0'
Date:	1/19/2010	Location:	
Time:	1315	Drilling Method:	Truck-mounted Geoprobe
Logged by:	Laura Moore	Sampling Method:	Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	3.6/4.0	0.0		Gravel, silt, wood	<14 ppm Pb
2		0.0		Sand, some silt, brown (7.5YR4/4), moist, loose, fine grained	
3		0.0		Some gravel	
4	NR				42 ppm Pb
5	2.7/4.0	0.0		Glass	
6		0.0		Sand, some silt, reddish black (2.5YR2.5/1), moist, loose, fine grained	
7	NR		B-7-SS-9-10		511 ppm Pb
8					
9	2.0/4.0				
10				rock in shoe	
11					
12				TD = 12.0' bgs	
13					



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1340
Logged by: Laura Moore

Boring No: B-8
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	4.0/4.0	0.0		Silt, sand, gravel, reddish black (2.5YR2.5/1), damp, medium plasticity, medium consistency	<35 ppm Pb
2		0.0			
3		0.0			
4					
5	3.2/4.0	0.0	glass		<58 ppm Pb
6		0.0			
7	NR				
8	4.0/4.0		SS-8-9		
9					
10					
11					
12				TD = 12.0' bgs	
13					



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1410
Logged by: Laura Moore

Boring No: B-9
Total Depth (ft): 8.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks				
1	2.5/4.0	0.0		Silt, sand, gravel, reddish black (2.5YR2.5/1), damp, medium plasticity, medium consistency	<20 ppm Pb				
2		0.0							
3	NR	0.0							
4									
5	3.3/4.0	0.0	B-9-SS-5-6		<24 ppm Pb				
6		0.0							
7	NR					Silt, sand, gravel, gray, wet, medium plasticity, medium consistency			
8									
9				TD = 8.0' bgs					
10									
11									
12									
13									



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1425
Logged by: Laura Moore

Boring No: B-10
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	3.5/4.0	0.0		Silt, some clay, reddish black (2.5YR2.5/1), moist, medium plasticity, medium consistency	<33 ppm Pb
2		0.0		Gravel, red (10R5/6) - brick	
3				Silt, some sand and gravel, reddish black (2.5YR2.5/1), moist, low plasticity, medium consistency	
4	NR	0.0	B-10-SS-4-5	wet	<13 ppm Pb
5	1.7/4.0				
6	NR				
7					
8					
9	4.0/4.0				
10					
11					
12					
13				TD = 12.0' bgs	

Page 1



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1445
Logged by: Laura Moore

Boring No: B-11
Total Depth (ft): 8.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1	3.0/4.0	0.0		Silt, some sand and gravel, reddish black (2.5YR2.5/1), moist, low plasticity, medium consistency	<18 ppm Pb
2		0.0		Silt, some sand and gravel, reddish black (2.5YR2.5/1), moist, low plasticity, medium consistency	
3		NR			
4					
5	2.5/4.0	0.0	B-11-SS-4-5		<18 ppm Pb
6		0.0			
7	NR				
8				TD = 8.0' bgs	
9					
10					
11					
12					
13					



Seagull Environmental Technologies, Inc.

Project: Waverly Yard Waste Site
Project No: EPS70901.0008
Date: 1/19/2010
Time: 1500
Logged by: Laura Moore

Boring No: B-12
Total Depth (ft): 12.0'
Location:
Drilling Method: Truck-mounted Geoprobe
Sampling Method: Macro-Core soil sampler

Depth (feet)	Recovery	PID Reading	Laboratory Sample ID	Lithology	Remarks
1		0.0		Silt, some sand, reddish black (2.5YR2.5/1), moist, low plasticity, medium consistency	<36 ppm Pb
2	2.9/4.0	0.0			
3	NR				
4				Sand, brown (7.5YR4/3), moist, medium density, poorly sorted	<25 ppm Pb
5		0.0			
6	2.7/4.0	0.0			
7	NR			B-12-SS-8-9 wet	<17 ppm Pb
8		0.0			
9		0.0			
10	2.2/4.0			TD = 12.0 ' bgs	
11	NR				
12					
13					

APPENDIX E
ANALYTICAL RESULTS TABLES

TABLE E-1
XRF SCREENING AND LABORATORY RESULTS FOR LEAD
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

<i>Transect Number/Soil Boring Location</i>	<i>Sample Number</i>	<i>Sample Depth</i>	<i>XRF Value for Lead (mg/kg)</i>	<i>Laboratory Result for Lead (mg/kg)</i>
Transect - 1	1-1	0-2"	23	NA
	1-2	0-2"	53	NA
	1-3	0-2"	99	NA
	1-4	0-2"	84	110 (sample 1-4)
	1-5	0-2"	292	NA
	1-6	0-2"	187	NA
	1-7	0-2"	480	508 (sample 1-7)
	1-8	0-2"	46	NA
	1-9	0-2"	106	NA
	1-10	0-2"	230	311 (sample 1-10)
	1-11	0-2"	308	NA
Transect - 2	2-1	0-2"	19	28 (sample 2-1)
	2-2	0-2"	29	NA
	2-3	0-2"	18	NA
	2-4	0-2"	43	NA
	2-5	0-2"	131	NA
	2-6	0-2"	137	164 (sample 2-6)
	2-7	0-2"	61	NA
	2-8	0-2"	112	NA
	2-9	0-2"	135	NA
	2-10	0-2"	79	NA
	2-11	0-2"	85	NA
Transect - 3	3-1	0-2"	36	NA
	3-2	0-2"	23	NA
	3-3	0-2"	20	NA
	3-4	0-2"	18	NA
	3-5	0-2"	18	NA
	3-6	0-2"	20	NA
	3-7	0-2"	93	NA
	3-8	0-2"	81	NA
	3-9	0-2"	97	NA
	3-10	0-2"	76	NA
	3-11	0-2"	46	NA

TABLE E-1
XRF SCREENING AND LABORATORY RESULTS FOR LEAD
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

<i>Transect Number/Soil Boring Location</i>	<i>Sample Number</i>	<i>Sample Depth</i>	<i>XRF Value for Lead (mg/kg)</i>	<i>Laboratory Result for Lead (mg/kg)</i>
Transect - 4	4-1	0-2"	24	NA
	4-2	0-2"	15	NA
	4-3	0-2"	185	NA
	4-4	0-2"	17	NA
	4-5	0-2"	16	NA
	4-6	0-2"	16	NA
	4-7	0-2"	20	NA
	4-8	0-2"	16	NA
	4-9	0-2"	18	NA
	4-10	0-2"	16	NA
	4-11	0-2"	201	NA
Transect - 5	5-1	0-2"	256	NA
	5-2	0-2"	416	NA
	5-3	0-2"	330	NA
	5-4	0-2"	34	NA
	5-5	0-2"	98	NA
	5-6	0-2"	249	NA
	5-7	0-2"	17	NA
	5-8	0-2"	44	47 (sample 5-8)
	5-9	0-2"	19	NA
	5-10	0-2"	16	NA
SB-1	B-1-SS	0-2"	294	NA
SB-2	B-2-SS	0-2"	14	NA
SB-3	B-3-SS	0-2"	40	NA
SB-4	B-4-SS	0-2"	19	NA
SB-5	B-5-SS	0-2"	18	NA
SB-6	B-6-SS	0-2"	17	NA
SB-7	B-7-SS	0-2"	17	NA

TABLE E-1
XRF SCREENING AND LABORATORY RESULTS FOR LEAD
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

<i>Transect Number/Soil Boring Location</i>	<i>Sample Number</i>	<i>Sample Depth</i>	<i>XRF Value for Lead (mg/kg)</i>	<i>Laboratory Result for Lead (mg/kg)</i>
SB-8	B-8-SS	0-2"	18	NA
SB-9	B-9-SS	0-2"	17	NA
SB-10	B-10-SS	0-2"	16	NA
SB-11	B-11-SS	0-2"	19	NA
SB-12	B-12-SS	0-2"	17	NA

Notes:

' Feet
 " Inches
 mg/kg Milligrams per kilogram
 NA Not analyzed

TABLE E-2
FIELD SCREENING AND LABORATORY RESULTS FOR METHANE
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

<i>Sample ID</i>	<i>Sample Location</i>	<i>Sample Depth (ft bgs)</i>	<i>Field Screening Result for Methane</i>	<i>Laboratory Result for Methane</i>
B-1-SG-10	B-1	10	0% LEL (0 ppm)	NA
B-2-SG-5.5	B-2	5.5	0% LEL (0 ppm)	69.4 mg/m ³
B-4-SG-8	B-4	8	0% LEL (0 ppm)	Non-detect (< 20 mg/m ³)
B-5-SG-8	B-5	8	13% LEL (6,500 ppm)	5,960 mg/m ³
B-6-SG-8	B-6	8	> 100% LEL (>50,000 ppm)	NA
B-7-SG-8	B-7	8	65% LEL (32,500 ppm)	NA
B-8-SG-8	B-8	8	> 100% LEL (>50,000 ppm)	33,300 mg/m ³
B-9-SG-8	B-9	8	> 100% LEL (>50,000 ppm)	166,000 mg/m ³
B-10-SG-8	B-10	8	0% LEL (0 ppm)	NA
B-11-SG-8	B-11	8	8% LEL (4,000 ppm)	NA
B-12-SG-8	B-12	8	0% LEL (0 ppm)	NA

Notes:

ft bgs	Feet below ground surface
ID	Identification
LEL	Lower explosive limit
mg/m ³	Milligrams per cubic meter
NA	Not analyzed
ppm	Parts per million
SG	Soil Gas

TABLE E-3
VOLATILE ORGANIC COMPOUNDS AND TOTAL EXTRACTABLE HYDROCARBONS IN SOIL
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Sample ID	Sample Location	Depth Interval (ft bgs)	VOCs (milligrams per kilogram)									Total Extractable Hydrocarbons (milligrams per kilogram)		
			1,1,1-TCA	2-Butanone	Acetone	Chloroform	Ethylbenzene	Naphthalene	PCE	Toluene	Xylenes, total	#2 Diesel Fuel	Gasoline	Waste Oil
B-1-SS-5-6.5	B-1	5-6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-2-SS-8-9	B-2	8-9	0.001	0.01	0.087	ND	ND	ND	0.001	ND	0.002	ND	ND	37
B-3-SS-4.5-5.5	B-3	4.5-5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-4-SS-8-9	B-4	8-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	37
B-5-SS-8-9	B-5	8-9	ND	0.037	0.121	ND	ND	ND	ND	0.001	0.002	ND	ND	ND
B-6-SS-5-6	B-6	5-6	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	417
B-7-SS-9-10	B-7	9-10	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND
B-8-SS-8-9	B-8	8-9	ND	0.007	ND	ND	ND	0.002	ND	ND	ND	ND	ND	36
B-9-SS-4-5	B-9	4-5	ND	0.041	0.171	ND	ND	ND	ND	ND	ND	ND	ND	36
B-10-SS-4-5	B-10	4-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-11-SS-4-5	B-11	4-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-12-SS-8-9	B-12	8-9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iowa Statewide Standard			150,000	46,000	68,000	510	7,600	1,100	5.7	6,100	15,000	NE		
IDNR Tier 1 LUST Standard - Soil Leaching to Groundwater			NE				15	NE	NE	42	NE	3,800	NE	
IDNR Tier 1 LUST Standard - Soil Vapor to Enclosed Space			NE				79	NE	NE	48	NE	47,500	NE	
IDNR Tier 1 LUST Standard - Soil to Plastic Water Line			NE				43	NE	NE	120	NE	10,500	NE	

Notes:

ft bgs Feet below ground surface
ID Identification
IDNR Iowa Department of Natural Resources
LUST Leaking underground storage tank
ND Not detected above laboratory detection limit

NE Standard not established
PCE Tetrachloroethylene
1,1,1-TCA 1,1,1-trichloroethane
VOC Volatile organic compound

TABLE E-4
RCRA METALS IN SOIL
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Sample ID	Sample Location	Depth Interval (ft bgs)	RCRA Metals (milligrams per kilogram)							
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
B-1-SS-5-6.5	B-1	5-6.5	ND	38.9	ND	4.6	ND	ND	ND	ND
B-2-SS-8-9	B-2	8-9	ND	1.6	1.5	16.5	169	ND	ND	ND
B-3-SS-4.5-5.5	B-3	4.5-5.5	ND	48.2	ND	4.8	5.9	ND	ND	ND
B-4-SS-8-9	B-4	8-9	ND	90.8	1.2	31.9	107	12	ND	3.1
B-5-SS-8-9	B-5	8-9	ND	14.8	ND	4.6	ND	ND	ND	ND
B-6-SS-5-6	B-6	5-6	ND	21.3	ND	8.6	6.2	ND	ND	ND
B-7-SS-9-10	B-7	9-10	ND	210	1.2	9.0	462	ND	ND	ND
B-8-SS-8-9	B-8	8-9	ND	20.2	ND	6.2	ND	ND	ND	ND
B-9-SS-4-5	B-9	4-5	ND	123	ND	11.2	20.4	ND	ND	ND
B-10-SS-4-5	B-10	4-5	ND	9.6	ND	3.5	ND	ND	ND	ND
B-11-SS-4-5	B-11	4-5	ND	57.6	ND	6.8	ND	ND	ND	ND
B-12-SS-8-9	B-12	8-9	ND	18.1	ND	5.8	ND	ND	ND	ND
SS-1-4	Transect-1	0-2"	6.0	199	ND	16.4	110	0.2	ND	ND
SS-1-7	Transect-1	0-2"	13.5	38	5.3	25.3	508	0.3	ND	ND
SS-1-10	Transect-1	0-2"	ND	197	2.0	15.4	311	0.2	ND	ND
SS-2-1	Transect-2	0-2"	ND	106	ND	12.1	27.7	0.2	ND	ND
SS-2-6	Transect-2	0-2"	ND	254	ND	15	164	ND	ND	ND
SS-5-8	Transect-5	0-2"	ND	164	ND	21.1	46.8	0.2	ND	ND
Iowa Statewide Standard			17	15,000	70	97,000	400	23	390	370

Notes:

Shaded result indicates analyte was detected above its Iowa Statewide Standard.

ft bgs Feet below ground surface
ID Identification
ND Not detected above laboratory detection limit
RCRA Resource Conservation and Recovery Act

TABLE E-5
RCRA METALS IN GROUNDWATER
WAVERLY YARD WASTE SITE, WAVERLY, IOWA

Sample ID	Sample Location	Depth Interval (ft bgs)	RCRA Metals (milligrams per liter)															
			Arsenic		Barium		Cadmium		Chromium		Lead		Mercury		Selenium		Silver	
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
B-1-GW	B-1	27-31	ND	ND	0.139	0.606	ND	ND	0.099	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-3-GW	B-3	20-24	ND	ND	0.289	0.209	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-11-GW	B-11	20-24	ND	ND	1.950	0.084	ND	ND	0.858	ND	0.436	ND	0.001	ND	ND	ND	ND	ND
B-9-GW	B-9	20-24	ND	ND	0.319	0.169	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-7-GW	B-7	20-24	0.039	ND	0.835	0.233	ND	ND	0.165	ND	0.097	ND	ND	ND	ND	ND	ND	ND
Equipment Rinsate Blank			ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Field Blank			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iowa Statewide Standard - Protected Groundwater Source			0.01		2		0.005		0.1		0.015		0.002		0.05		0.1	
Iowa Statewide Standard - Unprotected Groundwater Source			0.05		10		0.025		0.5		0.075		0.010		0.25		0.5	

Notes:

Shaded result indicates analyte was detected above its respective Iowa Statewide Standard.

ft bgs Feet below ground surface
ID Identification
ND Not detected above laboratory detection limit

APPENDIX F

CHAIN-OF-CUSTODY RECORDS AND ANALYTICAL RESULTS

04 February 2010

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

RE: Waverly - Soil
Waverly

Enclosed are the results of analyses for samples received by the laboratory on 01/20/10 12:00. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-SS-5-6.5	10A0822-01	Soil	01/19/10 08:55	01/20/10 12:00
B-2-SS-8-9	10A0822-02	Soil	01/19/10 10:05	01/20/10 12:00
B-3-SS-4.5-5.5	10A0822-03	Soil	01/19/10 10:40	01/20/10 12:00
B-4-SS-8-9	10A0822-04	Soil	01/19/10 11:25	01/20/10 12:00
B-5-SS-8-9	10A0822-05	Soil	01/19/10 12:45	01/20/10 12:00
B-6-SS-5-6	10A0822-06	Soil	01/19/10 13:05	01/20/10 12:00
B-7-SS-9-10	10A0822-07	Soil	01/19/10 13:30	01/20/10 12:00
B-8-SS-8-9	10A0822-08	Soil	01/19/10 13:55	01/20/10 12:00
B-9-SS-4-5	10A0822-09	Soil	01/19/10 14:15	01/20/10 12:00
B-10-SS-4-5	10A0822-10	Soil	01/19/10 14:35	01/20/10 12:00
B-11-SS-4-5	10A0822-11	Soil	01/19/10 14:50	01/20/10 12:00
B-12-SS-8-9	10A0822-12	Soil	01/19/10 15:10	01/20/10 12:00

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

CHAIN OF CUSTODY RECORD

600 East 17th Street South
Newton, IA 50208
641-792-8451

Keystone
LABORATORIES, INC.

Page 1 of 3

Printed: 1/4/2010 1:43:56PM

www.keystonelabs.com

SITE INFORMATION

Sampler: LM

Project: Waverly - Soil
Waverly

SPECIAL INSTRUCTIONS

None

Turn Around Time
☐ Standard ☐ RUSH, need by

REPORT TO

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

INVOICE TO

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

LAB USE ONLY

Work Order 10A0822

Temperature

Turn-Cooler: No

Custody Seal
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	B-1-SS-5-6-5	Soil	GRAB	1/14/10	09:55	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	01
02-001	B-2-SS-5-7	Soil	GRAB	1/14/10	10:55	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	02
03-001	B-3-SS-4-5-5-5	Soil	GRAB	1/14/10	10:40	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	03
04-001	B-4-SS-8-9	Soil	GRAB	1/14/10	11:25	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	04
05-001	B-5-SS-1-7	Soil	GRAB	1/14/10	12:45	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	05
06-001	B-6-SS-5-6	Soil	GRAB	1/14/10	13:05	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	06
07-001	B-7-SS-9-10	Soil	GRAB	1/14/10	13:30	6	o2-iowa 8270-104 rcrs-mtl+solid 8260-100	07

Remarks:

Relinquished By S. Williams Date/Time 1/22/10 12:00
Received for Lab By Date/Time

Relinquished By Paula Moss Date/Time 1/19/10 1401
Received By Date/Time

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

CHAIN OF CUSTODY RECORD

600 East 17th Street South
Newton, IA 50208
641-792-8451

Keystone
LABORATORIES, INC.

Page 2 of 3

Printed: 1/4/2010 1:43:58PM

www.keystonelabs.com

REPORT TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

INVOICE TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

SITE INFORMATION
Sampler: LA
Project: Waverly - Soil
Waverly

LAB USE ONLY
Work Order: 10A0822
Temperature: _____
Turn-Cooler: No

SPECIAL INSTRUCTIONS
None
Turn Around Time
☐ Standard ☐ RUSH, need by 1/1

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
08-001	B-8-SS-8-9	Soil	GRAB	1/18/10	1355	6	o2-iowa 8270-104 rcre-mil-t-solid 8260-100	08
09-001	B-9-SS-4-5	Soil	GRAB	1/14/10	1415	6	o2-iowa 8270-104 rcre-mil-t-solid 8260-100	09
10-001	B-10-SS-4-5	Soil	GRAB	1/14/10	1435	6	o2-iowa 8270-104 rcre-mil-t-solid 8260-100	10
11-001	B-11-SS-4-5	Soil	GRAB	1/14/10	1450	6	o2-iowa 8270-104 rcre-mil-t-solid 8260-100	11
12-001	B-12-SS-8-9	Soil	GRAB	1/14/10	1510	6	o2-iowa 8270-104 rcre-mil-t-solid 8260-100	12
13-001		Soil	GRAB	1/1			rcre-mil-t-solid 8260-100	
14-001		Soil	GRAB	1/1			rcre-mil-t-solid	

Relinquished By Diana Mober **Date/Time** 1/14/10 1600
Received By S. Williams **Date/Time** 1/20/10 12:00
Relinquished By _____ **Date/Time** _____
Received for Lab By _____ **Date/Time** _____

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-1-SS-5-6.5
10A0822-01 (Soil)

Date Sampled: 1/19/2010 8:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-1-SS-5-6.5
10A0822-01 (Soil)

Date Sampled: 1/19/2010 8:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		103 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		67.7 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/26/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		71.5 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		84.3 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 5 of 69

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-1-SS-5-6.5
10A0822-01 (Soil)

Date Sampled: 1/19/2010 8:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 84.6 % 50-150 1A02228 01/22/10 01/26/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 90.5 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	38.9	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	4.6	3.0	"	"	"	"	"	"
Mercury, total	ND	0.13	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-2-SS-8-9

10A0822-02 (Soil)

Date Sampled: 1/19/2010 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	0.001	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	0.010	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	0.087	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	0.001	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Trichloroethylene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 7 of 69

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-2-SS-8-9

10A0822-02 (Soil)

Date Sampled: 1/19/2010 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Vinyl Chloride	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Xylenes, total	0.002	0.002	"	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4		105 %	73-132		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.9 %	82-122		"	"	"	"	"
Surrogate: Dibromofluoromethane		105 %	75-132		"	"	"	"	"
Surrogate: Toluene-d8		104 %	85-115		"	"	"	"	"

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	"
TEH, as waste oil	37	5	"	"	"	"	"	"	"
Total Extractable Hydrocarbons	37	5	"	"	"	"	"	"	"
Surrogate: Pentacosane		99.4 %	50-143		"	"	"	"	"

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	1.63	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	1.63	"	"	"	"	"	"	"
Anthracene	ND	1.63	"	"	"	"	"	"	"
Benzo(a)anthracene	ND	1.63	"	"	"	"	"	"	"
Benzo(a)Pyrene	ND	1.63	"	"	"	"	"	"	"
Benzo(b)Fluoranthene	ND	1.63	"	"	"	"	"	"	"
Benzo(g,h,i)perylene	ND	1.63	"	"	"	"	"	"	"
Benzo(k)Fluoranthene	ND	1.63	"	"	"	"	"	"	"
Chrysene	ND	1.63	"	"	"	"	"	"	"
Dibenzo(a,h)anthracene	ND	1.63	"	"	"	"	"	"	"
Fluoranthene	ND	1.63	"	"	"	"	"	"	"
Fluorene	ND	1.63	"	"	"	"	"	"	"
Indeno(1,2,3-cd)Pyrene	ND	1.63	"	"	"	"	"	"	"
Naphthalene	ND	1.63	"	"	"	"	"	"	"
Phenanthrene	ND	1.63	"	"	"	"	"	"	"
Pyrene	ND	1.63	"	"	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl		79.6 %	50-143		"	"	"	"	"
Surrogate: Nitrobenzene-d5		74.5 %	50-134		"	"	"	"	"
Surrogate: Terphenyl-d14		75.9 %	50-150		"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-2-SS-8-9

10A0822-02 (Soil)

Date Sampled: 1/19/2010 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	88.7	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	155	1.00	"	"	"	"	"	"
Cadmium, total	1.5	1.0	"	"	"	"	"	"
Chromium, total	16.5	3.0	"	"	"	"	"	"
Mercury, total	ND	0.21	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	169	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-3-SS-4.5-5.5

10A0822-03 (Soil)

Date Sampled: 1/19/2010 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.0008	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.0008	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0008	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0008	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.0008	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0008	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0008	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0008	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0008	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0008	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.004	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.004	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.004	"	"	"	"	"	"	
Acetone	ND	0.042	"	"	"	"	"	"	
Benzene	ND	0.0008	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0008	"	"	"	"	"	"	
Bromoform	ND	0.0008	"	"	"	"	"	"	
Bromomethane	ND	0.0008	"	"	"	"	"	"	
Carbon Disulfide	ND	0.004	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.0008	"	"	"	"	"	"	
Chlorobenzene	ND	0.0008	"	"	"	"	"	"	
Chloroethane	ND	0.0008	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.0008	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.0008	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0008	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0008	"	"	"	"	"	"	
Ethylbenzene	ND	0.0008	"	"	"	"	"	"	
Methylene Chloride	ND	0.042	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.0008	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.0008	"	"	"	"	"	"	
Toluene	ND	0.0008	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.0008	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0008	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-3-SS-4.5-5.5

10A0822-03 (Soil)

Date Sampled: 1/19/2010 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.0008	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.0008	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		106 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		92.9 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/26/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69.7 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.3 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-3-SS-4.5-5.5

10A0822-03 (Soil)

Date Sampled: 1/19/2010 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 78.9 % 50-150 1A02228 01/22/10 01/26/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 85.0 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	48.2	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	4.8	3.0	"	"	"	"	"	"
Mercury, total	ND	0.15	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	5.9	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-4-SS-8-9

10A0822-04 (Soil)

Date Sampled: 1/19/2010 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-4-SS-8-9

10A0822-04 (Soil)

Date Sampled: 1/19/2010 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		104 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	37	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	37	5	"	"	"	"	"	"	
Surrogate: Pentacosane		69.2 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	1.64	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	1.64	"	"	"	"	"	"	
Anthracene	ND	1.64	"	"	"	"	"	"	
Benzo(a)anthracene	ND	1.64	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	1.64	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	1.64	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	1.64	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	1.64	"	"	"	"	"	"	
Chrysene	ND	1.64	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	1.64	"	"	"	"	"	"	
Fluoranthene	ND	1.64	"	"	"	"	"	"	
Fluorene	ND	1.64	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	1.64	"	"	"	"	"	"	
Naphthalene	ND	1.64	"	"	"	"	"	"	
Phenanthrene	ND	1.64	"	"	"	"	"	"	
Pyrene	ND	1.64	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		83.8 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.9 %	50-134		"	"	"	"	
Surrogate: Terphenyl-d14		65.4 %	50-150		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-4-SS-8-9

10A0822-04 (Soil)

Date Sampled: 1/19/2010 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	94.4	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	3.1	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	90.8	1.00	"	"	"	"	"	"
Cadmium, total	1.2	1.0	"	"	"	"	"	"
Chromium, total	31.9	3.0	"	"	"	"	"	"
Mercury, total	12	0.15	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	107	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-5-SS-8-9

10A0822-05 (Soil)

Date Sampled: 1/19/2010 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	0.037	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	0.121	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	0.001	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Trichloroethylene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-5-SS-8-9

10A0822-05 (Soil)

Date Sampled: 1/19/2010 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Vinyl Chloride	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Xylenes, total	0.002	0.002	"	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>73-132</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>101 %</i>	<i>82-122</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Dibromofluoromethane</i>		<i>106 %</i>	<i>75-132</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>	<i>85-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
<i>Surrogate: Pentacosane</i>		<i>95.7 %</i>	<i>50-143</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/26/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>		<i>68.8 %</i>	<i>50-143</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Nitrobenzene-d5</i>		<i>70.1 %</i>	<i>50-134</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>Surrogate: Terphenyl-d14</i>		<i>81.4 %</i>	<i>50-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-5-SS-8-9

10A0822-05 (Soil)

Date Sampled: 1/19/2010 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	96.5	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	14.8	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	4.6	3.0	"	"	"	"	"	"
Mercury, total	ND	0.15	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-6-SS-5-6
10A0822-06 (Soil)

Date Sampled: 1/19/2010 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.007	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.007	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.007	"	"	"	"	"	"	
Acetone	ND	0.070	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.007	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.003	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	0.001	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.070	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.003	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-6-SS-5-6
10A0822-06 (Soil)

Date Sampled: 1/19/2010 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.003	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		103 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	49	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	49	"	"	"	"	"	"	
TEH, as waste oil	417	49	"	"	"	"	"	"	
Total Extractable Hydrocarbons	417	49	"	"	"	"	"	"	
Surrogate: Pentacosane		123 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	3.27	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	3.27	"	"	"	"	"	"	
Anthracene	ND	3.27	"	"	"	"	"	"	
Benzo(a)anthracene	ND	3.27	"	"	"	"	"	"	
Chrysene	ND	3.27	"	"	"	"	"	"	
Fluoranthene	ND	3.27	"	"	"	"	"	"	
Fluorene	ND	3.27	"	"	"	"	"	"	
Naphthalene	ND	3.27	"	"	"	"	"	"	
Phenanthrene	ND	3.27	"	"	"	"	"	"	
Pyrene	ND	3.27	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		80.9 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		83.0 %	50-134		"	"	"	"	
Surrogate: Terphenyl-d14		104 %	50-150		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-6-SS-5-6
10A0822-06 (Soil)

Date Sampled: 1/19/2010 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	89.9	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	21.3	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	8.6	3.0	"	"	"	"	"	"
Mercury, total	ND	0.19	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	6.2	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-6-SS-5-6
10A0822-06RE1 (Soil)

Date Sampled: 1/19/2010 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Benzo(a)Pyrene	ND	6.53	mg/kg dry	2	1A02228	01/22/10	02/02/10	EPA 8270C	
Benzo(b)Fluoranthene	ND	6.53	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	6.53	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	6.53	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	6.53	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	6.53	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		50.2 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		58.6 %	50-134		"	"	"	"	
Surrogate: Terphenyl-d14		45.2 %	50-150		"	"	"	"	S-BN

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-7-SS-9-10
10A0822-07 (Soil)

Date Sampled: 1/19/2010 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	0.002	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-7-SS-9-10
10A0822-07 (Soil)

Date Sampled: 1/19/2010 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		106 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		95.8 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/26/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		61.4 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		76.0 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-7-SS-9-10
10A0822-07 (Soil)

Date Sampled: 1/19/2010 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 73.4 % 50-150 1A02228 01/22/10 01/26/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 80.7 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	210	1.00	"	"	"	"	"	"
Cadmium, total	1.2	1.0	"	"	"	"	"	"
Chromium, total	9.0	3.0	"	"	"	"	"	"
Mercury, total	ND	0.17	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	462	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-8-SS-8-9

10A0822-08 (Soil)

Date Sampled: 1/19/2010 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	0.007	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	0.002	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Trichloroethylene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-8-SS-8-9

10A0822-08 (Soil)

Date Sampled: 1/19/2010 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Vinyl Chloride	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		102 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/27/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	36	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	36	5	"	"	"	"	"	"	
Surrogate: Pentacosane		109 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.1 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		75.5 %	50-134		"	"	"	"	
Surrogate: Terphenyl-d14		82.1 %	50-150		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-8-SS-8-9

10A0822-08 (Soil)

Date Sampled: 1/19/2010 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	91.6	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	20.2	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	6.2	3.0	"	"	"	"	"	"
Mercury, total	ND	0.13	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-9-SS-4-5

10A0822-09 (Soil)

Date Sampled: 1/19/2010 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	0.041	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	0.171	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Trichloroethylene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-9-SS-4-5
10A0822-09 (Soil)

Date Sampled: 1/19/2010 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Vinyl Chloride	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		104 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	36	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	36	5	"	"	"	"	"	"	
Surrogate: Pentacosane		98.6 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	1.65	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	1.65	"	"	"	"	"	"	
Anthracene	ND	1.65	"	"	"	"	"	"	
Benzo(a)anthracene	ND	1.65	"	"	"	"	"	"	
Chrysene	ND	1.65	"	"	"	"	"	"	
Fluoranthene	ND	1.65	"	"	"	"	"	"	
Fluorene	ND	1.65	"	"	"	"	"	"	
Naphthalene	ND	1.65	"	"	"	"	"	"	
Phenanthrene	ND	1.65	"	"	"	"	"	"	
Pyrene	ND	1.65	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		56.4 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		65.3 %	50-134		"	"	"	"	
Surrogate: Terphenyl-d14		87.6 %	50-150		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-9-SS-4-5
10A0822-09 (Soil)

Date Sampled: 1/19/2010 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	74.4	0.1	%	1	1A02107	01/21/10	01/21/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	123	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	11.2	3.0	"	"	"	"	"	"
Mercury, total	ND	0.20	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	20.4	5.0	"	"	1A02137	01/21/10	01/26/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	01/25/10	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-9-SS-4-5

10A0822-09RE1 (Soil)

Date Sampled: 1/19/2010 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Benzo(a)Pyrene	ND	3.30	mg/kg dry	2	1A02228	01/22/10	02/02/10	EPA 8270C	
Benzo(b)Fluoranthene	ND	3.30	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	3.30	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	3.30	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	3.30	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	3.30	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		36.3 %	50-143		"	"	"	"	S-01
Surrogate: Nitrobenzene-d5		49.1 %	50-134		"	"	"	"	S-01
Surrogate: Terphenyl-d14		41.3 %	50-150		"	"	"	"	S-01

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-10-SS-4-5

10A0822-10 (Soil)

Date Sampled: 1/19/2010 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-10-SS-4-5

10A0822-10 (Soil)

Date Sampled: 1/19/2010 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		105 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		110 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.5 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		72.1 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-10-SS-4-5
10A0822-10 (Soil)

Date Sampled: 1/19/2010 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 83.4 % 50-150 1A02228 01/22/10 01/27/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 96.8 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	9.64	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	3.5	3.0	"	"	"	"	"	"
Mercury, total	ND	0.13	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-11-SS-4-5

10A0822-11 (Soil)

Date Sampled: 1/19/2010 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-11-SS-4-5
10A0822-11 (Soil)

Date Sampled: 1/19/2010 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.5 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		105 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		106 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		70.0 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		71.0 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-11-SS-4-5
10A0822-11 (Soil)

Date Sampled: 1/19/2010 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 73.1 % 50-150 1A02228 01/22/10 01/27/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 96.7 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	57.6	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	6.8	3.0	"	"	"	"	"	"
Mercury, total	ND	0.15	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-12-SS-8-9

10A0822-12 (Soil)

Date Sampled: 1/19/2010 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.001	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.001	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.001	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.001	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.005	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.005	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.005	"	"	"	"	"	"	
Acetone	ND	0.050	"	"	"	"	"	"	
Benzene	ND	0.001	"	"	"	"	"	"	
Bromodichloromethane	ND	0.001	"	"	"	"	"	"	
Bromoform	ND	0.001	"	"	"	"	"	"	
Bromomethane	ND	0.001	"	"	"	"	"	"	
Carbon Disulfide	ND	0.005	"	"	"	"	"	"	
Carbon Tetrachloride	ND	0.001	"	"	"	"	"	"	
Chlorobenzene	ND	0.001	"	"	"	"	"	"	
Chloroethane	ND	0.001	"	"	"	"	"	"	
Chloroform	ND	0.002	"	"	"	"	"	"	
Chloromethane	ND	0.001	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	
Dibromochloromethane	ND	0.001	"	"	"	"	"	"	
Ethylbenzene	ND	0.001	"	"	"	"	"	"	
Methylene Chloride	ND	0.050	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	0.002	"	"	"	"	"	"	
Naphthalene	ND	0.001	"	"	"	"	"	"	
Tetrachloroethylene	ND	0.001	"	"	"	"	"	"	
Toluene	ND	0.001	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	0.001	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.001	"	"	"	"	"	"	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-12-SS-8-9

10A0822-12 (Soil)

Date Sampled: 1/19/2010 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	0.001	mg/kg dry	1	1B00228	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	0.001	"	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		100 %	73-132		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	82-122		"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	75-132		"	"	"	"	
Surrogate: Toluene-d8		105 %	85-115		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	5	mg/kg	1	1A02629	01/26/10	01/28/10	Iowa OA-2	
TEH, as gasoline	ND	5	"	"	"	"	"	"	
TEH, as waste oil	ND	5	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	5	"	"	"	"	"	"	
Surrogate: Pentacosane		87.4 %	50-143		"	"	"	"	

Determination of Polynuclear Aromatic Hydrocarbons

Acenaphthene	ND	0.33	mg/kg dry	1	1A02228	01/22/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	0.33	"	"	"	"	"	"	
Anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)anthracene	ND	0.33	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	0.33	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	0.33	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	0.33	"	"	"	"	"	"	
Chrysene	ND	0.33	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	0.33	"	"	"	"	"	"	
Fluoranthene	ND	0.33	"	"	"	"	"	"	
Fluorene	ND	0.33	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	0.33	"	"	"	"	"	"	
Naphthalene	ND	0.33	"	"	"	"	"	"	
Phenanthrene	ND	0.33	"	"	"	"	"	"	
Pyrene	ND	0.33	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69.8 %	50-143		"	"	"	"	
Surrogate: Nitrobenzene-d5		69.7 %	50-134		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

B-12-SS-8-9

10A0822-12 (Soil)

Date Sampled: 1/19/2010 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Polynuclear Aromatic Hydrocarbons

Surrogate: Terphenyl-d14 85.2 % 50-150 1A02228 01/22/10 01/27/10 EPA 8270C

Determination of Conventional Chemistry Parameters

% Solids 94.9 0.1 % 1 1A02107 01/21/10 01/21/10 SM 2540 G

Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1A02137	01/21/10	01/25/10	EPA 6010B
Arsenic, total	ND	2.0	"	"	"	"	"	"
Barium, total	18.1	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	5.8	3.0	"	"	"	"	"	"
Mercury, total	ND	0.19	"	"	1A02509	01/25/10	01/25/10	EPA 7471A
Lead, total	ND	5.0	"	"	1A02137	01/21/10	01/25/10	EPA 6010B
Selenium, total	ND	2.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0304 - 1B00228

Calibration Check (10B0304-CCV1)

Prepared & Analyzed: 02/01/10

Chloromethane	96.03		mg/kg wet	100.400		95.6	80-120			
Vinyl Chloride	98.33		"	100.450		97.9	80-120			
Bromomethane	95.20		"	100.450		94.8	80-120			
Chloroethane	97.28		"	100.450		96.8	80-120			
1,1-Dichloroethylene	48.80		"	50.0000		97.6	80-120			
Acetone	127.7		"	139.300		91.7	80-120			
Carbon Disulfide	108.4		"	112.000		96.8	80-120			
Methylene Chloride	51.96		"	50.0000		104	80-120			
trans-1,2-Dichloroethylene	49.48		"	50.0000		99.0	80-120			
Methyl-t-butyl Ether (MTBE)	112.0		"	113.050		99.0	80-120			
1,1-Dichloroethane	48.50		"	50.0000		97.0	80-120			
cis-1,2-Dichloroethylene	49.83		"	50.0000		99.7	80-120			
2-Butanone (MEK)	164.2		"	171.150		95.9	80-120			
Chloroform	48.44		"	50.0000		96.9	80-120			
1,1,1-Trichloroethane	48.46		"	50.0000		96.9	80-120			
Carbon Tetrachloride	49.25		"	50.0000		98.5	80-120			
Benzene	48.60		"	50.0000		97.2	80-120			
1,2-Dichloroethane	48.01		"	50.0000		96.0	80-120			
Trichloroethylene	49.54		"	50.0000		99.1	80-120			
1,2-Dichloropropane	48.54		"	50.0000		97.1	80-120			
Bromodichloromethane	48.39		"	50.0000		96.8	80-120			
cis-1,3-Dichloropropene	49.69		"	50.0000		99.4	80-120			
4-Methyl-2-pentanone (MIBK)	129.2		"	131.250		98.4	80-120			
Toluene	49.05		"	50.0000		98.1	80-120			
trans-1,3-Dichloropropene	49.31		"	50.0000		98.6	80-120			
1,1,2-Trichloroethane	48.61		"	50.0000		97.2	80-120			
Tetrachloroethylene	48.69		"	50.0000		97.4	80-120			
2-Hexanone (MBK)	113.4		"	115.500		98.2	80-120			
Dibromochloromethane	49.26		"	50.0000		98.5	80-120			
Chlorobenzene	50.21		"	50.0000		100	80-120			
Ethylbenzene	49.55		"	50.0000		99.1	80-120			
Xylenes, total	154.2		"	150.000		103	80-120			
Bromoform	50.19		"	50.0000		100	80-120			
1,1,2,2-Tetrachloroethane	50.72		"	50.0000		101	80-120			
1,3-Dichlorobenzene	50.64		"	50.0000		101	80-120			
1,4-Dichlorobenzene	50.49		"	50.0000		101	80-120			
1,2-Dichlorobenzene	51.33		"	50.0000		103	80-120			
Naphthalene	53.12		"	50.0000		106	80-120			
Surrogate: Dibromofluoromethane	49.87		"	50.0000		99.7	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.73		"	50.0000		97.5	80-120			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0304 - 1B00228

Calibration Check (10B0304-CCV1)

Prepared & Analyzed: 02/01/10

Surrogate: Toluene-d8	49.40		mg/kg wet	50.0000		98.8	85-115			
Surrogate: 4-Bromofluorobenzene	49.85		"	50.0000		99.7	82-120			

Calibration Check (10B0304-CCV2)

Prepared: 02/01/10 Analyzed: 02/03/10

Chloromethane	99.99		mg/kg wet	100.400		99.6	80-120			
Vinyl Chloride	100.4		"	100.450		99.9	80-120			
Bromomethane	109.8		"	100.450		109	80-120			
Chloroethane	99.19		"	100.450		98.7	80-120			
1,1-Dichloroethylene	49.00		"	50.0000		98.0	80-120			
Acetone	143.6		"	139.300		103	80-120			
Carbon Disulfide	114.2		"	112.000		102	80-120			
Methylene Chloride	49.06		"	50.0000		98.1	80-120			
trans-1,2-Dichloroethylene	50.83		"	50.0000		102	80-120			
Methyl-t-butyl Ether (MTBE)	120.4		"	113.050		106	80-120			
1,1-Dichloroethane	49.20		"	50.0000		98.4	80-120			
cis-1,2-Dichloroethylene	51.22		"	50.0000		102	80-120			
2-Butanone (MEK)	187.9		"	171.150		110	80-120			
Chloroform	50.40		"	50.0000		101	80-120			
1,1,1-Trichloroethane	49.43		"	50.0000		98.9	80-120			
Carbon Tetrachloride	51.38		"	50.0000		103	80-120			
Benzene	54.20		"	50.0000		108	80-120			
1,2-Dichloroethane	50.76		"	50.0000		102	80-120			
Trichloroethylene	54.68		"	50.0000		109	80-120			
1,2-Dichloropropane	51.96		"	50.0000		104	80-120			
Bromodichloromethane	52.85		"	50.0000		106	80-120			
cis-1,3-Dichloropropene	52.13		"	50.0000		104	80-120			
4-Methyl-2-pentanone (MIBK)	152.5		"	131.250		116	80-120			
Toluene	53.99		"	50.0000		108	80-120			
trans-1,3-Dichloropropene	52.24		"	50.0000		104	80-120			
1,1,2-Trichloroethane	53.42		"	50.0000		107	80-120			
Tetrachloroethylene	56.41		"	50.0000		113	80-120			
2-Hexanone (MBK)	137.2		"	115.500		119	80-120			
Dibromochloromethane	53.96		"	50.0000		108	80-120			
Chlorobenzene	55.59		"	50.0000		111	80-120			
Ethylbenzene	54.32		"	50.0000		109	80-120			
Xylenes, total	166.0		"	150.000		111	80-120			
Bromoform	56.63		"	50.0000		113	80-120			
1,1,2,2-Tetrachloroethane	60.66		"	50.0000		121	80-120			
1,3-Dichlorobenzene	59.96		"	50.0000		120	80-120			
1,4-Dichlorobenzene	57.76		"	50.0000		116	80-120			
1,2-Dichlorobenzene	57.90		"	50.0000		116	80-120			

C-17

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0304 - 1B00228

Calibration Check (10B0304-CCV2)

Prepared: 02/01/10 Analyzed: 02/03/10

Naphthalene	62.79		mg/kg wet	50.0000		126	80-120			C-17
Surrogate: Dibromofluoromethane	47.88		"	50.0000		95.8	80-120			
Surrogate: 1,2-Dichloroethane-d4	45.29		"	50.0000		90.6	80-120			
Surrogate: Toluene-d8	47.75		"	50.0000		95.5	85-115			
Surrogate: 4-Bromofluorobenzene	47.71		"	50.0000		95.4	82-120			

Batch 1B00228 - EPA 5035

Blank (1B00228-BLK1)

Prepared & Analyzed: 02/01/10

Chloromethane	ND	0.001	mg/kg wet
Vinyl Chloride	ND	0.001	"
Bromomethane	ND	0.001	"
Chloroethane	ND	0.001	"
1,1-Dichloroethylene	ND	0.001	"
Acetone	ND	0.050	"
Carbon Disulfide	ND	0.005	"
Methylene Chloride	ND	0.050	"
trans-1,2-Dichloroethylene	ND	0.001	"
Methyl-t-butyl Ether (MTBE)	ND	0.002	"
1,1-Dichloroethane	ND	0.001	"
cis-1,2-Dichloroethylene	ND	0.001	"
2-Butanone (MEK)	ND	0.005	"
Chloroform	ND	0.002	"
1,1,1-Trichloroethane	ND	0.001	"
Carbon Tetrachloride	ND	0.001	"
Benzene	ND	0.001	"
1,2-Dichloroethane	ND	0.001	"
Trichloroethylene	ND	0.001	"
1,2-Dichloropropane	ND	0.001	"
Bromodichloromethane	ND	0.001	"
cis-1,3-Dichloropropene	ND	0.001	"
4-Methyl-2-pentanone (MIBK)	ND	0.005	"
Toluene	ND	0.001	"
trans-1,3-Dichloropropene	ND	0.001	"
1,1,2-Trichloroethane	ND	0.001	"
Tetrachloroethylene	ND	0.001	"
2-Hexanone (MBK)	ND	0.005	"
Dibromochloromethane	ND	0.001	"
Chlorobenzene	ND	0.001	"
Ethylbenzene	ND	0.001	"
Xylenes, total	ND	0.002	"

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This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00228 - EPA 5035

Blank (1B00228-BLK1)

Prepared & Analyzed: 02/01/10

Bromoform	ND	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.001	"							
1,3-Dichlorobenzene	ND	0.001	"							
1,4-Dichlorobenzene	ND	0.001	"							
1,2-Dichlorobenzene	ND	0.001	"							
Naphthalene	ND	0.001	"							
Surrogate: Dibromofluoromethane	0.04976		"	0.0500000		99.5	75-132			
Surrogate: 1,2-Dichloroethane-d4	0.04479		"	0.0500000		89.6	73-132			
Surrogate: Toluene-d8	0.05205		"	0.0500000		104	85-115			
Surrogate: 4-Bromofluorobenzene	0.04857		"	0.0500000		97.1	82-122			

LCS (1B00228-BS1)

Prepared: 02/01/10 Analyzed: 02/03/10

Chloromethane	0.0998	0.001	mg/kg wet	0.100400		99.4	73-140			
Vinyl Chloride	0.0992	0.001	"	0.100450		98.7	86-139			
Bromomethane	0.1005	0.001	"	0.100450		100	76-143			
Chloroethane	0.0986	0.001	"	0.100450		98.2	85-130			
1,1-Dichloroethylene	0.0481	0.001	"	0.0500000		96.3	83-128			
Acetone	0.0907	0.050	"	0.0822500		110	50-150			
Carbon Disulfide	0.0978	0.005	"	0.0910000		107	77-126			
Methylene Chloride	0.0458	0.050	"	0.0500000		91.7	73-120			
trans-1,2-Dichloroethylene	0.0487	0.001	"	0.0500000		97.4	77-124			
Methyl-t-butyl Ether (MTBE)	0.0986	0.002	"	0.0931000		106	64-139			
1,1-Dichloroethane	0.0469	0.001	"	0.0500000		93.9	81-120			
cis-1,2-Dichloroethylene	0.0481	0.001	"	0.0500000		96.2	80-120			
2-Butanone (MEK)	0.1201	0.005	"	0.122500		98.0	50-150			
Chloroform	0.0477	0.002	"	0.0500000		95.4	82-114			
1,1,1-Trichloroethane	0.0471	0.001	"	0.0500000		94.3	82-116			
Carbon Tetrachloride	0.0489	0.001	"	0.0500000		97.7	81-124			
Benzene	0.0504	0.001	"	0.0500000		101	68-138			
1,2-Dichloroethane	0.0473	0.001	"	0.0500000		94.6	64-141			
Trichloroethylene	0.0521	0.001	"	0.0500000		104	87-119			
1,2-Dichloropropane	0.0508	0.001	"	0.0500000		102	81-122			
Bromodichloromethane	0.0512	0.001	"	0.0500000		102	85-118			
cis-1,3-Dichloropropene	0.0513	0.001	"	0.0500000		103	76-121			
4-Methyl-2-pentanone (MIBK)	0.1451	0.005	"	0.130900		111	57-134			
Toluene	0.0492	0.001	"	0.0500000		98.4	76-134			
trans-1,3-Dichloropropene	0.0495	0.001	"	0.0500000		99.0	73-118			
1,1,2-Trichloroethane	0.0496	0.001	"	0.0500000		99.1	72-118			
Tetrachloroethylene	0.0532	0.001	"	0.0500000		106	79-120			
2-Hexanone (MBK)	0.1059	0.005	"	0.102900		103	59-144			
Dibromochloromethane	0.0497	0.001	"	0.0500000		99.4	78-118			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00228 - EPA 5035

LCS (1B00228-BS1)

Prepared: 02/01/10 Analyzed: 02/03/10

Chlorobenzene	0.0509	0.001	mg/kg wet	0.0500000		102	80-118			
Ethylbenzene	0.0500	0.001	"	0.0500000		100	70-141			
Xylenes, total	0.1555	0.002	"	0.1500000		104	71-141			
Bromoform	0.0513	0.001	"	0.0500000		103	67-119			
1,1,2,2-Tetrachloroethane	0.0516	0.001	"	0.0500000		103	68-127			
1,3-Dichlorobenzene	0.0530	0.001	"	0.0500000		106	77-120			
1,4-Dichlorobenzene	0.0524	0.001	"	0.0500000		105	78-119			
1,2-Dichlorobenzene	0.0520	0.001	"	0.0500000		104	77-119			
Naphthalene	0.0580	0.001	"	0.0500000		116	50-150			
Surrogate: Dibromofluoromethane	0.04827		"	0.0500000		96.5	75-132			
Surrogate: 1,2-Dichloroethane-d4	0.04486		"	0.0500000		89.7	73-132			
Surrogate: Toluene-d8	0.04850		"	0.0500000		97.0	85-115			
Surrogate: 4-Bromofluorobenzene	0.04828		"	0.0500000		96.6	82-122			

LCS Dup (1B00228-BS1)

Prepared: 02/01/10 Analyzed: 02/03/10

Chloromethane	0.0992	0.001	mg/kg wet	0.100400		98.8	73-140	0.653	20	
Vinyl Chloride	0.1008	0.001	"	0.100450		100	86-139	1.61	20	
Bromomethane	0.1084	0.001	"	0.100450		108	76-143	7.56	20	
Chloroethane	0.0992	0.001	"	0.100450		98.8	85-130	0.617	20	
1,1-Dichloroethylene	0.0480	0.001	"	0.0500000		96.0	83-128	0.312	20	
Acetone	0.0868	0.050	"	0.0822500		106	50-150	4.44	20	
Carbon Disulfide	0.0962	0.005	"	0.0910000		106	77-126	1.68	20	
Methylene Chloride	0.0445	0.050	"	0.0500000		89.0	73-120	2.94	20	
trans-1,2-Dichloroethylene	0.0481	0.001	"	0.0500000		96.2	77-124	1.18	20	
Methyl-t-butyl Ether (MTBE)	0.0980	0.002	"	0.0931000		105	64-139	0.621	18	
1,1-Dichloroethane	0.0466	0.001	"	0.0500000		93.3	81-120	0.641	20	
cis-1,2-Dichloroethylene	0.0477	0.001	"	0.0500000		95.4	80-120	0.835	20	
2-Butanone (MEK)	0.1150	0.005	"	0.122500		93.9	50-150	4.30	20	
Chloroform	0.0467	0.002	"	0.0500000		93.4	82-114	2.14	20	
1,1,1-Trichloroethane	0.0467	0.001	"	0.0500000		93.4	82-116	0.917	20	
Carbon Tetrachloride	0.0472	0.001	"	0.0500000		94.4	81-124	3.50	20	
Benzene	0.0477	0.001	"	0.0500000		95.4	68-138	5.44	23	
1,2-Dichloroethane	0.0466	0.001	"	0.0500000		93.3	64-141	1.36	20	
Trichloroethylene	0.0490	0.001	"	0.0500000		98.0	87-119	6.11	20	
1,2-Dichloropropane	0.0478	0.001	"	0.0500000		95.6	81-122	6.15	20	
Bromodichloromethane	0.0492	0.001	"	0.0500000		98.5	85-118	4.02	20	
cis-1,3-Dichloropropene	0.0483	0.001	"	0.0500000		96.6	76-121	6.06	20	
4-Methyl-2-pentanone (MIBK)	0.1359	0.005	"	0.130900		104	57-134	6.59	20	
Toluene	0.0478	0.001	"	0.0500000		95.5	76-134	2.97	17	
trans-1,3-Dichloropropene	0.0468	0.001	"	0.0500000		93.7	73-118	5.50	20	
1,1,2-Trichloroethane	0.0473	0.001	"	0.0500000		94.5	72-118	4.75	20	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00228 - EPA 5035

LCS Dup (1B00228-BSD1)

Prepared: 02/01/10 Analyzed: 02/03/10

Tetrachloroethylene	0.0512	0.001	mg/kg wet	0.0500000		102	79-120	3.74	20	
2-Hexanone (MBK)	0.1043	0.005	"	0.102900		101	59-144	1.46	20	
Dibromochloromethane	0.0491	0.001	"	0.0500000		98.1	78-118	1.34	20	
Chlorobenzene	0.0495	0.001	"	0.0500000		99.1	80-118	2.77	20	
Ethylbenzene	0.0489	0.001	"	0.0500000		97.8	70-141	2.28	24	
Xylenes, total	0.1499	0.002	"	0.150000		99.9	71-141	3.65	23	
Bromoform	0.0492	0.001	"	0.0500000		98.5	67-119	4.04	20	
1,1,2,2-Tetrachloroethane	0.0547	0.001	"	0.0500000		109	68-127	5.85	20	
1,3-Dichlorobenzene	0.0528	0.001	"	0.0500000		106	77-120	0.416	20	
1,4-Dichlorobenzene	0.0517	0.001	"	0.0500000		103	78-119	1.34	20	
1,2-Dichlorobenzene	0.0519	0.001	"	0.0500000		104	77-119	0.270	20	
Naphthalene	0.0547	0.001	"	0.0500000		109	50-150	5.81	22	
Surrogate: Dibromofluoromethane	0.04840		"	0.0500000		96.8	75-132			
Surrogate: 1,2-Dichloroethane-d4	0.04622		"	0.0500000		92.4	73-132			
Surrogate: Toluene-d8	0.04727		"	0.0500000		94.5	85-115			
Surrogate: 4-Bromofluorobenzene	0.04755		"	0.0500000		95.1	82-122			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2816 - 1A02530

Calibration Check (10A2816-CCV1)

Prepared & Analyzed: 01/27/10

TEH, as gasoline	1930		mg/l	2027.60		95.2	85-115			
TEH, as #2 diesel fuel	2157		"	2076.00		104	85-115			
TEH, as waste oil	1799		"	2022.00		89.0	85-115			
Surrogate: Pentacosane	45.0		"	49.9600		90.0	85-115			

Calibration Check (10A2816-CCV2)

Prepared: 01/27/10 Analyzed: 01/28/10

TEH, as gasoline	2054		mg/l	2027.60		101	85-115			
TEH, as #2 diesel fuel	2245		"	2076.00		108	85-115			
TEH, as waste oil	1969		"	2022.00		97.4	85-115			
Surrogate: Pentacosane	55.2		"	49.9600		110	85-115			

Batch 1A02629 - 3545 OA-2 PFE

Blank (1A02629-BLK1)

Prepared: 01/26/10 Analyzed: 01/27/10

TEH, as gasoline	ND	5	mg/kg							
TEH, as #2 diesel fuel	ND	5	"							
TEH, as waste oil	ND	5	"							
Total Extractable Hydrocarbons	ND	5	"							
Surrogate: Pentacosane	1.60		"	2.52200		63.6	50-143			

LCS (1A02629-BS1)

Prepared: 01/26/10 Analyzed: 01/28/10

TEH, as #2 diesel fuel	434.7	5	mg/kg	500.500		86.8	51-115			
Surrogate: Pentacosane	3.16		"	2.52200		125	50-143			

Matrix Spike (1A02629-MS1)

Source: 10A0822-01

Prepared: 01/26/10 Analyzed: 01/28/10

TEH, as #2 diesel fuel	423.0	5	mg/kg	499.252	ND	84.7	50-110			
Surrogate: Pentacosane	3.37		"	2.51571		134	50-143			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02629 - 3545 OA-2 PFE

Matrix Spike Dup (1A02629-MSD1)

Source: 10A0822-01

Prepared: 01/26/10 Analyzed: 01/28/10

TEH, as #2 diesel fuel	391.4	5	mg/kg	495.790	ND	78.9	50-110	7.76	30	
Surrogate: Pentacosane	3.14		"	2.49827		126	50-143			

Reference (1A02629-SRM1)

Prepared: 01/26/10 Analyzed: 01/28/10

TEH, as #2 diesel fuel	503.4	5	mg/kg	500.500		101	70-130			
Surrogate: Pentacosane	3.16		"	2.52200		125	50-143			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2713 - 1A02228

Calibration Check (10A2713-CCV1)

Prepared & Analyzed: 01/26/10

Naphthalene	39.91		mg/kg wet	41.1075		97.1	80-120			
Acenaphthylene	42.06		"	40.5000		104	80-120			
Acenaphthene	43.90		"	40.5000		108	80-120			
Fluorene	43.01		"	40.5000		106	80-120			
Phenanthrene	44.23		"	41.2492		107	80-120			
Anthracene	42.56		"	41.1278		103	80-120			
Fluoranthene	40.72		"	40.5000		101	80-120			
Pyrene	42.75		"	40.9658		104	80-120			
Benzo(a)anthracene	43.55		"	41.1075		106	80-120			
Chrysene	43.64		"	41.2290		106	80-120			
Indeno(1,2,3-cd)Pyrene	44.80		"	40.5000		111	80-120			
Benzo(b)Fluoranthene	42.36		"	40.6822		104	80-120			
Benzo(k)Fluoranthene	52.77		"	40.5000		130	80-120			C-17
Benzo(a)Pyrene	45.97		"	40.9658		112	80-120			
Dibenzo(a,h)anthracene	45.09		"	40.5000		111	80-120			
Benzo(g,h,i)perylene	45.12		"	41.6542		108	80-120			
Surrogate: Nitrobenzene-d5	43.1		"	42.2880		102	80-120			
Surrogate: 2-Fluorobiphenyl	46.0		"	42.2640		109	80-120			
Surrogate: Terphenyl-d14	44.3		"	42.5040		104	80-120			

Batch 10A2910 - 1A02228

Calibration Check (10A2910-CCV1)

Prepared & Analyzed: 02/01/10

Naphthalene	47.65		mg/kg wet	41.1075		116	80-120			
Acenaphthylene	44.09		"	40.5000		109	80-120			
Acenaphthene	39.62		"	40.5000		97.8	80-120			
Fluorene	43.26		"	40.5000		107	80-120			
Phenanthrene	39.12		"	41.2492		94.8	80-120			
Anthracene	39.48		"	41.1278		96.0	80-120			
Fluoranthene	37.89		"	40.5000		93.6	80-120			
Pyrene	40.82		"	40.9658		99.6	80-120			
Benzo(a)anthracene	38.69		"	41.1075		94.1	80-120			
Chrysene	39.43		"	41.2290		95.6	80-120			
Indeno(1,2,3-cd)Pyrene	38.74		"	40.5000		95.7	80-120			
Benzo(b)Fluoranthene	34.68		"	40.6822		85.2	80-120			
Benzo(k)Fluoranthene	43.87		"	40.5000		108	80-120			
Benzo(a)Pyrene	40.17		"	40.9658		98.1	80-120			
Dibenzo(a,h)anthracene	37.21		"	40.5000		91.9	80-120			
Benzo(g,h,i)perylene	39.87		"	41.6542		95.7	80-120			
Surrogate: Nitrobenzene-d5	48.8		"	42.2880		115	80-120			
Surrogate: 2-Fluorobiphenyl	42.6		"	42.2640		101	80-120			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2910 - 1A02228

Calibration Check (10A2910-CCV1)

Prepared & Analyzed: 02/01/10

Surrogate: Terphenyl-d14	40.7	mg/kg wet	42.5040	95.8	80-120
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Batch 1A02228 - 3545 BNA PFE

Blank (1A02228-BLK1)

Prepared: 01/22/10 Analyzed: 01/26/10

Naphthalene	ND	0.33	mg/kg wet
Acenaphthylene	ND	0.33	"
Acenaphthene	ND	0.33	"
Fluorene	ND	0.33	"
Phenanthrene	ND	0.33	"
Anthracene	ND	0.33	"
Fluoranthene	ND	0.33	"
Pyrene	ND	0.33	"
Benzo(a)anthracene	ND	0.33	"
Chrysene	ND	0.33	"
Indeno(1,2,3-cd)Pyrene	ND	0.33	"
Benzo(b)Fluoranthene	ND	0.33	"
Benzo(k)Fluoranthene	ND	0.33	"
Benzo(a)Pyrene	ND	0.33	"
Dibenzo(a,h)anthracene	ND	0.33	"
Benzo(g,h,i)perylene	ND	0.33	"

Surrogate: Nitrobenzene-d5	2.05	"	2.93667	69.7	50-134
Surrogate: 2-Fluorobiphenyl	2.03	"	2.93500	69.1	50-143
Surrogate: Terphenyl-d14	2.45	"	2.95167	83.1	50-150

LCS (1A02228-BS1)

Prepared: 01/22/10 Analyzed: 01/26/10

Naphthalene	1.282	0.33	mg/kg wet	1.86667	68.7	50-110
Acenaphthylene	1.631	0.33	"	1.86667	87.4	50-126
Acenaphthene	1.715	0.33	"	1.86667	91.9	50-113
Fluorene	2.234	0.33	"	1.86667	120	50-120
Phenanthrene	1.741	0.33	"	1.86667	93.3	53-128
Anthracene	1.757	0.33	"	1.86667	94.1	50-133
Fluoranthene	1.678	0.33	"	1.86667	89.9	50-140
Pyrene	1.844	0.33	"	1.86667	98.8	52-128
Benzo(a)anthracene	1.835	0.33	"	1.86667	98.3	53-128
Chrysene	1.852	0.33	"	1.86667	99.2	52-134
Indeno(1,2,3-cd)Pyrene	1.016	0.33	"	1.86667	54.4	50-150
Benzo(b)Fluoranthene	1.985	0.33	"	1.86667	106	50-150
Benzo(k)Fluoranthene	2.451	0.33	"	1.86667	131	50-150
Benzo(a)Pyrene	1.891	0.33	"	1.86667	101	50-145
Dibenzo(a,h)anthracene	1.052	0.33	"	1.86667	56.4	50-150

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02228 - 3545 BNA PFE

LCS (1A02228-BS1)

Prepared: 01/22/10 Analyzed: 01/26/10

Benzo(g,h,i)perylene	0.960	0.33	mg/kg wet	1.86667		51.4	50-150			
Surrogate: Nitrobenzene-d5	2.12		"	2.93667		72.0	50-134			
Surrogate: 2-Fluorobiphenyl	2.25		"	2.93500		76.6	50-143			
Surrogate: Terphenyl-d14	2.40		"	2.95167		81.4	50-150			

Matrix Spike (1A02228-MS1)

Source: 10A0822-12

Prepared: 01/22/10 Analyzed: 01/27/10

Naphthalene	1.340	0.33	mg/kg dry	1.96719	ND	68.1	50-126			
Acenaphthylene	1.550	0.33	"	1.96719	ND	78.8	50-136			
Acenaphthene	1.685	0.33	"	1.96719	ND	85.6	50-130			
Fluorene	2.179	0.33	"	1.96719	ND	111	53-117			
Phenanthrene	1.834	0.33	"	1.96719	ND	93.2	53-129			
Anthracene	1.792	0.33	"	1.96719	ND	91.1	50-145			
Fluoranthene	1.730	0.33	"	1.96719	ND	87.9	50-145			
Pyrene	1.849	0.33	"	1.96719	ND	94.0	50-138			
Benzo(a)anthracene	1.819	0.33	"	1.96719	ND	92.5	51-120			
Chrysene	1.896	0.33	"	1.96719	ND	96.4	50-127			
Indeno(1,2,3-cd)Pyrene	1.004	0.33	"	1.96719	ND	51.0	50-128			
Benzo(b)Fluoranthene	2.177	0.33	"	1.96719	ND	111	50-150			
Benzo(k)Fluoranthene	2.416	0.33	"	1.96719	ND	123	50-144			
Benzo(a)Pyrene	1.976	0.33	"	1.96719	ND	100	50-145			
Dibenzo(a,h)anthracene	1.002	0.33	"	1.96719	ND	50.9	50-136			
Benzo(g,h,i)perylene	0.885	0.33	"	1.96719	ND	45.0	50-130			QM-07
Surrogate: Nitrobenzene-d5	2.28		"	3.09481		73.6	50-134			
Surrogate: 2-Fluorobiphenyl	2.31		"	3.09306		74.6	50-143			
Surrogate: Terphenyl-d14	2.39		"	3.11062		76.8	50-150			

Matrix Spike Dup (1A02228-MSD1)

Source: 10A0822-12

Prepared: 01/22/10 Analyzed: 01/27/10

Naphthalene	1.302	0.33	mg/kg dry	1.96719	ND	66.2	50-126	2.90	30	
Acenaphthylene	1.647	0.33	"	1.96719	ND	83.7	50-136	6.04	27	
Acenaphthene	1.741	0.33	"	1.96719	ND	88.5	50-130	3.26	25	
Fluorene	2.190	0.33	"	1.96719	ND	111	53-117	0.498	20	
Phenanthrene	1.865	0.33	"	1.96719	ND	94.8	53-129	1.67	25	
Anthracene	1.802	0.33	"	1.96719	ND	91.6	50-145	0.567	30	
Fluoranthene	1.721	0.33	"	1.96719	ND	87.5	50-145	0.529	30	
Pyrene	1.811	0.33	"	1.96719	ND	92.1	50-138	2.05	30	
Benzo(a)anthracene	1.847	0.33	"	1.96719	ND	93.9	51-120	1.49	30	
Chrysene	1.893	0.33	"	1.96719	ND	96.2	50-127	0.148	28	
Indeno(1,2,3-cd)Pyrene	1.037	0.33	"	1.96719	ND	52.7	50-128	3.24	28	
Benzo(b)Fluoranthene	2.199	0.33	"	1.96719	ND	112	50-150	1.01	30	
Benzo(k)Fluoranthene	2.415	0.33	"	1.96719	ND	123	50-144	0.0436	30	
Benzo(a)Pyrene	2.012	0.33	"	1.96719	ND	102	50-145	1.81	24	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Polynuclear Aromatic Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02228 - 3545 BNA PFE

Matrix Spike Dup (1A02228-MSD1)

Source: 10A0822-12

Prepared: 01/22/10 Analyzed: 01/27/10

Dibenzo(a,h)anthracene	1.042	0.33	mg/kg dry	1.96719	ND	53.0	50-136	3.92	25	
Benzo(g,h,i)perylene	0.881	0.33	"	1.96719	ND	44.8	50-130	0.438	30	QM-07
Surrogate: Nitrobenzene-d5	2.23		"	3.09481		72.2	50-134			
Surrogate: 2-Fluorobiphenyl	2.28		"	3.09306		73.7	50-143			
Surrogate: Terphenyl-d14	2.32		"	3.11062		74.7	50-150			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02107 - Wet Chem Preparation

Duplicate (1A02107-DUP1)	Source: 10A0772-01			Prepared & Analyzed: 01/21/10						
% Solids	2.1	0.1	%		2.1			2.84	20	
Duplicate (1A02107-DUP2)	Source: 10A0807-01			Prepared & Analyzed: 01/21/10						
% Solids	18.3	0.1	%		18.2			0.494	20	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2512 - 1A02137

Calibration Blank (10A2512-CCB1)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.00720		mg/l	0.00000						
Barium, total	0.0001		"	0.00000						
Cadmium, total	0.0002		"	0.00000						
Chromium, total	-0.0004		"	0.00000						
Lead, total	0.00130		"	0.00000						
Selenium, total	-0.0025		"	0.00000						
Silver, total	-0.0002		"	0.00000						

Calibration Blank (10A2512-CCB2)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.0119		mg/l	0.00000						
Barium, total	0.0001		"	0.00000						
Cadmium, total	0.0002		"	0.00000						
Chromium, total	-0.0001		"	0.00000						
Lead, total	-0.00180		"	0.00000						
Selenium, total	-0.0044		"	0.00000						
Silver, total	0.0004		"	0.00000						

Calibration Blank (10A2512-CCB3)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.0226		mg/l	0.00000						
Barium, total	0.00		"	0.00000						
Cadmium, total	0.001		"	0.00000						
Chromium, total	-0.0009		"	0.00000						
Lead, total	-0.00110		"	0.00000						
Selenium, total	-0.0012		"	0.00000						
Silver, total	-0.0009		"	0.00000						

Calibration Blank (10A2512-CCB4)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.0101		mg/l	0.00000						
Barium, total	0.0002		"	0.00000						
Cadmium, total	0.0005		"	0.00000						
Chromium, total	0.0006		"	0.00000						
Lead, total	0.00380		"	0.00000						
Selenium, total	0.0021		"	0.00000						
Silver, total	-0.0005		"	0.00000						

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2512 - 1A02137

Calibration Blank (10A2512-CCB5)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.0146		mg/l	0.00000						
Barium, total	0.0001		"	0.00000						
Cadmium, total	0.0007		"	0.00000						
Chromium, total	0.002		"	0.00000						
Lead, total	0.00430		"	0.00000						
Selenium, total	0.0002		"	0.00000						
Silver, total	-0.0009		"	0.00000						

Calibration Check (10A2512-CCV1)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.11		mg/l	1.00000	111	90-110				C-11
Barium, total	1.04		"	1.00000	104	90-110				
Cadmium, total	1.03		"	1.00000	103	90-110				
Chromium, total	1.04		"	1.00000	104	90-110				
Lead, total	1.04		"	1.00000	104	90-110				
Selenium, total	1.039		"	1.00000	104	90-110				
Silver, total	1.05		"	1.00000	105	90-110				

Calibration Check (10A2512-CCV2)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.11		mg/l	1.00000	111	90-110				C-11
Barium, total	1.04		"	1.00000	104	90-110				
Cadmium, total	1.02		"	1.00000	102	90-110				
Chromium, total	1.04		"	1.00000	104	90-110				
Lead, total	1.04		"	1.00000	104	90-110				
Selenium, total	1.032		"	1.00000	103	90-110				
Silver, total	1.06		"	1.00000	106	90-110				

Calibration Check (10A2512-CCV3)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.16		mg/l	1.00000	116	90-110				C-11
Barium, total	1.07		"	1.00000	107	90-110				
Cadmium, total	1.05		"	1.00000	105	90-110				
Chromium, total	1.07		"	1.00000	107	90-110				
Lead, total	1.08		"	1.00000	108	90-110				
Selenium, total	1.041		"	1.00000	104	90-110				
Silver, total	1.08		"	1.00000	108	90-110				

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2512 - 1A02137

Calibration Check (10A2512-CCV4)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.19		mg/l	1.00000		119	90-110			C-11
Barium, total	1.11		"	1.00000		111	90-110			C-11
Cadmium, total	1.06		"	1.00000		106	90-110			
Chromium, total	1.09		"	1.00000		109	90-110			
Lead, total	1.11		"	1.00000		111	90-110			C-11
Selenium, total	1.085		"	1.00000		108	90-110			
Silver, total	1.13		"	1.00000		113	90-110			C-11

Calibration Check (10A2512-CCV5)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.19		mg/l	1.00000		119	90-110			C-11
Barium, total	1.10		"	1.00000		110	90-110			
Cadmium, total	1.06		"	1.00000		106	90-110			
Chromium, total	1.08		"	1.00000		108	90-110			
Lead, total	1.12		"	1.00000		112	90-110			C-11
Selenium, total	1.089		"	1.00000		109	90-110			
Silver, total	1.12		"	1.00000		112	90-110			C-11

High Cal Check (10A2512-HCV2)

Prepared & Analyzed: 01/25/10

Arsenic, total	20.6		mg/l	20.0000		103	90-110			
Barium, total	19.4		"	20.0000		97.2	90-110			
Cadmium, total	19.2		"	20.0000		96.0	90-110			
Chromium, total	19.9		"	20.0000		99.5	90-110			
Lead, total	19.8		"	20.0000		99.2	90-110			
Selenium, total	19.26		"	20.0000		96.3	90-110			
Silver, total	19.6		"	20.0000		98.0	90-110			

High Cal Check (10A2512-HCV3)

Prepared & Analyzed: 01/25/10

Chromium, total	93.4		mg/l	100.000		93.4	90-110			
Lead, total	101		"	100.000		101	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2512 - 1A02137

Initial Cal Blank (10A2512-ICB1)

Prepared & Analyzed: 01/25/10

Arsenic, total	-0.00150		mg/l	0.00000						
Barium, total	0.00		"	0.00000						
Cadmium, total	0.0005		"	0.00000						
Chromium, total	0.0006		"	0.00000						
Lead, total	0.00200		"	0.00000						
Selenium, total	-0.0026		"	0.00000						
Silver, total	-0.001		"	0.00000						

Initial Cal Check (10A2512-ICV1)

Prepared & Analyzed: 01/25/10

Arsenic, total	1.05		mg/l	1.00000		105	90-110			
Barium, total	1.01		"	1.00000		101	90-110			
Cadmium, total	0.986		"	1.00000		98.6	90-110			
Chromium, total	0.999		"	1.00000		99.9	90-110			
Lead, total	1.00		"	1.00000		100	90-110			
Selenium, total	1.003		"	1.00000		100	90-110			
Silver, total	1.02		"	1.00000		102	90-110			

Secondary Cal Check (10A2512-SCV1)

Prepared & Analyzed: 01/25/10

Arsenic, total	0.540		mg/l	0.500000		108	90-110			
Barium, total	0.511		"	0.500000		102	90-110			
Cadmium, total	0.509		"	0.500000		102	90-110			
Chromium, total	0.505		"	0.500000		101	90-110			
Lead, total	0.512		"	0.500000		102	90-110			
Selenium, total	0.5153		"	0.500000		103	90-110			
Silver, total	0.512		"	0.500000		102	90-110			

Batch 10A2515 - 1A02509

Cal Standard (10A2515-CAL1)

Prepared & Analyzed: 01/25/10

Mercury, total	0.00		mg/kg wet	0.00000						
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The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2515 - 1A02509										
Cal Standard (10A2515-CAL2)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0002		mg/kg wet	0.000200000		100				
Cal Standard (10A2515-CAL3)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0005		mg/kg wet	0.000500000		100				
Cal Standard (10A2515-CAL4)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0010		mg/kg wet	0.001000000		100				
Cal Standard (10A2515-CAL5)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0020		mg/kg wet	0.002000000		100				
Cal Standard (10A2515-CAL6)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0030		mg/kg wet	0.003000000		100				
Cal Standard (10A2515-CAL7)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0100		mg/kg wet	0.010000000		100				
Calibration Blank (10A2515-CCB1)				Prepared & Analyzed: 01/25/10						
Mercury, total	-0.00001		mg/kg wet	0.00000						
Calibration Blank (10A2515-CCB2)				Prepared & Analyzed: 01/25/10						
Mercury, total	-0.00006		mg/kg wet	0.00000						
Calibration Blank (10A2515-CCB3)				Prepared & Analyzed: 01/25/10						
Mercury, total	-0.00005		mg/kg wet	0.00000						
Calibration Blank (10A2515-CCB4)				Prepared & Analyzed: 01/25/10						
Mercury, total	-0.00001		mg/kg wet	0.00000						

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Seagull Environmental Technologies
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Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2515 - 1A02509										
Calibration Check (10A2515-CCV1)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0020		mg/kg wet	0.00200000		100	80-120			
Calibration Check (10A2515-CCV2)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0018		mg/kg wet	0.00200000		91.5	80-120			
Calibration Check (10A2515-CCV3)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0021		mg/kg wet	0.00200000		107	80-120			
Calibration Check (10A2515-CCV4)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0020		mg/kg wet	0.00200000		102	80-120			
Instrument RL Check (10A2515-CRL1)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0002		mg/kg wet	0.000200000		100	70-130			
Initial Cal Blank (10A2515-ICB1)				Prepared & Analyzed: 01/25/10						
Mercury, total	-0.00003		mg/kg wet	0.00000						
Initial Cal Check (10A2515-ICV1)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0020		mg/kg wet	0.00200000		101	80-120			
Secondary Cal Check (10A2515-SCV1)				Prepared & Analyzed: 01/25/10						
Mercury, total	0.0021		mg/kg wet	0.00200000		106	80-120			
Batch 10A2604 - 1A02544										
Calibration Blank (10A2604-CCB1)				Prepared & Analyzed: 01/26/10						
Lead, total	-0.00130		mg/l	0.00000						

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2604 - 1A02544										
Calibration Blank (10A2604-CCB2)				Prepared & Analyzed: 01/26/10						
Lead, total	-0.00170		mg/l	0.00000						
Calibration Blank (10A2604-CCB4)				Prepared & Analyzed: 01/26/10						
Lead, total	-0.000700		mg/l	0.00000						
Calibration Blank (10A2604-CCB5)				Prepared & Analyzed: 01/26/10						
Lead, total	0.00220		mg/l	0.00000						
Calibration Blank (10A2604-CCB6)				Prepared & Analyzed: 01/26/10						
Lead, total	0.000100		mg/l	0.00000						
Calibration Blank (10A2604-CCB7)				Prepared & Analyzed: 01/26/10						
Lead, total	0.00150		mg/l	0.00000						
Calibration Blank (10A2604-CCB8)				Prepared & Analyzed: 01/26/10						
Lead, total	-0.00100		mg/l	0.00000						
Calibration Check (10A2604-CCV1)				Prepared & Analyzed: 01/26/10						
Lead, total	1.08		mg/l	1.00000		108	90-110			
Calibration Check (10A2604-CCV2)				Prepared & Analyzed: 01/26/10						
Lead, total	1.08		mg/l	1.00000		108	90-110			
Calibration Check (10A2604-CCV4)				Prepared & Analyzed: 01/26/10						
Lead, total	1.01		mg/l	1.00000		101	90-110			
Calibration Check (10A2604-CCV5)				Prepared & Analyzed: 01/26/10						
Lead, total	1.02		mg/l	1.00000		102	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2604 - 1A02544

Calibration Check (10A2604-CCV6)

Prepared & Analyzed: 01/26/10

Lead, total	1.03		mg/l	1.00000		103	90-110
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Calibration Check (10A2604-CCV7)

Prepared & Analyzed: 01/26/10

Lead, total	1.02		mg/l	1.00000		102	90-110
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Calibration Check (10A2604-CCV8)

Prepared & Analyzed: 01/26/10

Lead, total	1.03		mg/l	1.00000		103	90-110
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High Cal Check (10A2604-HCV2)

Prepared & Analyzed: 01/26/10

Lead, total	18.6		mg/l	20.0000		93.0	90-110
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High Cal Check (10A2604-HCV3)

Prepared & Analyzed: 01/26/10

Lead, total	101		mg/l	100.000		101	90-110
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Initial Cal Blank (10A2604-ICB1)

Prepared & Analyzed: 01/26/10

Lead, total	-0.000100		mg/l	0.00000			
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Initial Cal Check (10A2604-ICV1)

Prepared & Analyzed: 01/26/10

Lead, total	1.02		mg/l	1.00000		102	90-110
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Secondary Cal Check (10A2604-SCV1)

Prepared & Analyzed: 01/26/10

Lead, total	0.510		mg/l	0.500000		102	90-110
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Batch 1A02137 - EPA 3050B Solid Dig

Blank (1A02137-BLK1)

Prepared: 01/21/10 Analyzed: 01/25/10

Arsenic, total	ND	2.0	mg/kg wet
Barium, total	ND	1.00	"
Cadmium, total	ND	1.0	"
Chromium, total	ND	3.0	"
Lead, total	ND	5.0	"
Selenium, total	ND	2.0	"
Silver, total	ND	1.0	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02137 - EPA 3050B Solid Dig

LCS (1A02137-BS1)

Prepared: 01/21/10 Analyzed: 01/25/10

Arsenic, total	215	2.0	mg/kg wet	200.000		107	76-110			
Barium, total	222	1.00	"	200.000		111	82-111			
Cadmium, total	204	1.0	"	200.000		102	76-114			
Chromium, total	216	3.0	"	200.000		108	68-124			
Lead, total	215	5.0	"	200.000		108	68-121			
Selenium, total	172	2.0	"	200.000		86.0	65-110			
Silver, total	196	1.0	"	200.000		97.8	82-111			

Matrix Spike (1A02137-MS1)

Source: 10A0822-01

Prepared: 01/21/10 Analyzed: 01/25/10

Arsenic, total	176	2.0	mg/kg dry	194.988	ND	90.1	60-113			
Barium, total	216	1.00	"	194.988	38.9	90.8	60-140			
Cadmium, total	160	1.0	"	194.988	0.4	81.6	60-113			
Chromium, total	174	3.0	"	194.988	4.6	86.9	60-130			
Lead, total	170	5.0	"	194.988	2.7	86.0	60-140			
Selenium, total	148	2.0	"	194.988	ND	75.8	60-110			
Silver, total	168	1.0	"	194.988	ND	86.3	60-122			

Matrix Spike Dup (1A02137-MSD1)

Source: 10A0822-01

Prepared: 01/21/10 Analyzed: 01/25/10

Arsenic, total	176	2.0	mg/kg dry	194.440	ND	90.5	60-113	0.443	19	
Barium, total	227	1.00	"	194.440	38.9	96.9	60-140	6.49	26	
Cadmium, total	161	1.0	"	194.440	0.4	82.6	60-113	1.22	27	
Chromium, total	178	3.0	"	194.440	4.6	89.0	60-130	2.32	22	
Lead, total	173	5.0	"	194.440	2.7	87.4	60-140	1.67	20	
Selenium, total	144	2.0	"	194.440	ND	74.0	60-110	2.34	17	
Silver, total	172	1.0	"	194.440	ND	88.4	60-122	2.41	15	

Post Spike (1A02137-PS1)

Source: 10A0822-01

Prepared: 01/21/10 Analyzed: 01/25/10

Arsenic, total	2.1		mg/kg dry	2.00000	-1.0	153	72-110			
Barium, total	2.44		"	2.00000	38.9	NR	68-114			
Cadmium, total	1.9		"	2.00000	0.4	76.1	70-110			
Chromium, total	2.1		"	2.00000	4.6	NR	65-122			
Lead, total	2.0		"	2.00000	2.7	NR	60-123			
Selenium, total	1.7		"	2.00000	-0.7	119	60-110			
Silver, total	2.0		"	2.00000	-0.3	113	75-114			

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Seagull Environmental Technologies
11905 Gillette St.
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Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1A02509 - EPA 7471A Hg Solid										
Blank (1A02509-BLK1)				Prepared & Analyzed: 01/25/10						
Mercury, total	ND	0.25	mg/kg wet							
LCS (1A02509-BS1)				Prepared & Analyzed: 01/25/10						
Mercury, total	1.07	0.25	mg/kg wet	1.00000		107	81-124			
Matrix Spike (1A02509-MS1)				Source: 10A0822-01		Prepared & Analyzed: 01/25/10				
Mercury, total	0.636	0.13	mg/kg dry	0.570771	ND	112	66-137			
Matrix Spike Dup (1A02509-MSD1)				Source: 10A0822-01		Prepared & Analyzed: 01/25/10				
Mercury, total	0.634	0.13	mg/kg dry	0.574031	ND	110	66-137	0.901	27	

Seagull Environmental Technologies
11905 Gillette St.
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Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
200.7 in Drink Wtr		
	Calcium, total	IA-NT
	Sodium, total	IA-NT
EPA 200.7 in Water		
	Aluminum, total	IA-NT
	Arsenic, total	IA-NT
	Barium, total	IA-NT
	Cadmium, total	IA-NT
	Calcium, total	IA-NT
	Chromium, total	IA-NT
	Cobalt, total	IA-NT
	Copper, total	IA-NT
	Iron, total	IA-NT
	Lead, total	IA-NT
	Magnesium, total	IA-NT
	Manganese, total	IA-NT
	Molybdenum, total	IA-NT
	Nickel, total	IA-NT
	Potassium, total	IA-NT
	Silver, total	IA-NT
	Sodium, total	IA-NT
	Zinc, total	IA-NT
	Hardness, Total as CaCO ₃	KS-NT,NELAC
EPA 6010B in Soil		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Potassium, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC
EPA 6010B in Water		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
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Project: Waverly - Soil
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EPA 6010B in Wipe

Sodium, total IA-NT,KS-NT,NELAC

EPA 7471A in Soil

Lead, total IA-NT,KS-NT,NELAC

EPA 8260B in Soil

Mercury, total IA-NT,KS-NT,NELAC

Chloromethane IA-NT,KS-NT,NELAC
Vinyl Chloride IA-NT,KS-NT,NELAC
Bromomethane IA-NT,KS-NT,NELAC
Chloroethane IA-NT,KS-NT,NELAC
1,1-Dichloroethylene IA-NT,KS-NT,NELAC
Acetone IA-NT,KS-NT,NELAC
Carbon Disulfide IA-NT,KS-NT,NELAC
Methylene Chloride IA-NT,KS-NT,NELAC
trans-1,2-Dichloroethylene IA-NT,KS-NT,NELAC
Methyl-t-butyl Ether (MTBE) IA-NT,KS-NT,NELAC
1,1-Dichloroethane IA-NT,KS-NT,NELAC
cis-1,2-Dichloroethylene IA-NT
2-Butanone (MEK) IA-NT,KS-NT,NELAC
Chloroform IA-NT,KS-NT,NELAC
1,1,1-Trichloroethane IA-NT,KS-NT,NELAC
Carbon Tetrachloride IA-NT,KS-NT,NELAC
Benzene IA-NT,KS-NT,NELAC
1,2-Dichloroethane IA-NT,KS-NT,NELAC
Trichloroethylene IA-NT,KS-NT,NELAC
1,2-Dichloropropane IA-NT,KS-NT,NELAC
Bromodichloromethane IA-NT,KS-NT,NELAC
cis-1,3-Dichloropropene IA-NT,KS-NT,NELAC
4-Methyl-2-pentanone (MIBK) IA-NT,KS-NT,NELAC
Toluene IA-NT,KS-NT,NELAC
trans-1,3-Dichloropropene IA-NT,KS-NT,NELAC
1,1,2-Trichloroethane IA-NT,KS-NT,NELAC
Tetrachloroethylene IA-NT,KS-NT,NELAC
2-Hexanone (MBK) IA-NT,KS-NT,NELAC
Dibromochloromethane IA-NT,KS-NT,NELAC
Chlorobenzene IA-NT,KS-NT,NELAC
Ethylbenzene IA-NT,KS-NT,NELAC
Xylenes, total IA-NT,KS-NT,NELAC
Bromoform IA-NT,KS-NT,NELAC
1,1,2,2-Tetrachloroethane IA-NT,KS-NT,NELAC
1,3-Dichlorobenzene IA-NT,KS-NT,NELAC
1,4-Dichlorobenzene IA-NT,KS-NT,NELAC
1,2-Dichlorobenzene IA-NT,KS-NT,NELAC
Naphthalene KS-NT,NELAC

EPA 8270C in Soil

Naphthalene IA-NT,KS-NT,NELAC
Acenaphthylene IA-NT,KS-NT,NELAC
Acenaphthene IA-NT,KS-NT,NELAC
Fluorene IA-NT,KS-NT,NELAC

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Seagull Environmental Technologies
11905 Gillette St.
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Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Phenanthrene	IA-NT,KS-NT,NELAC
Anthracene	IA-NT,KS-NT,NELAC
Fluoranthene	IA-NT,KS-NT,NELAC
Pyrene	IA-NT,KS-NT,NELAC
Benzo(a)anthracene	IA-NT,KS-NT,NELAC
Chrysene	IA-NT,KS-NT,NELAC
Indeno(1,2,3-cd)Pyrene	IA-NT,KS-NT,NELAC
Benzo(b)Fluoranthene	IA-NT,KS-NT,NELAC
Benzo(k)Fluoranthene	IA-NT,KS-NT,NELAC
Benzo(a)Pyrene	IA-NT,KS-NT,NELAC
Dibenzo(a,h)anthracene	IA-NT,KS-NT,NELAC
Benzo(g,h,i)perylene	IA-NT,KS-NT,NELAC

Iowa OA-2 in Soil

Total Extractable Hydrocarbons	IA-NT
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Iowa OA-2 in Water

Total Extractable Hydrocarbons	IA-NT
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SM 2540 G in Soil

% Solids	IA-NT
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SM 3120B in Water

Cadmium, total	IA-NT,KS-NT,NELAC
Chromium, total	IA-NT,KS-NT,NELAC
Copper, total	IA-NT,KS-NT,NELAC
Lead, total	IA-NT,KS-NT,NELAC
Molybdenum, total	IA-NT,KS-NT,NELAC
Nickel, total	IA-NT,KS-NT,NELAC
Silver, total	IA-NT,KS-NT,NELAC
Zinc, total	IA-NT,KS-NT,NELAC

Code	Certifying Authority	Certificate Number	Expires
IA-NT	Iowa Department of Natural Resources	095	02/01/2010
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010

Seagull Environmental Technologies
11905 Gillette St.
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Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

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Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
D-06	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
C-17	The CCV recovery was outside established QC acceptance limits.
C-11	The CCV was outside established acceptance limits. Batch was accepted based on acceptable LCS and/or MS/MSD recoveries.
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

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/04/10 15:54

A handwritten signature in black ink that reads "Sue Thompson".

Sue Thompson
Project Manager I

09 February 2010

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

RE: Waverly - Soil
Waverly

Enclosed are the results of analyses for samples received by the laboratory on 01/27/10 10:05. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-2-1	10A1030-01	Soil	01/20/10 00:00	01/27/10 10:05
SS-3-10	10A1030-02	Soil	01/20/10 00:00	01/27/10 10:05
SS-5-8	10A1030-03	Soil	01/20/10 00:00	01/27/10 10:05
SS-5-1	10A1030-04	Soil	01/20/10 00:00	01/27/10 10:05
SS-1-7	10A1030-05	Soil	01/20/10 00:00	01/27/10 10:05
SS-2-6	10A1030-06	Soil	01/20/10 00:00	01/27/10 10:05

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

CHAIN OF CUSTODY RECORD

Keystone
LABORATORIES, INC.

600 E. 17th St. S
Newton, IA, 50208
Phone: 800-858-5227
Fax: 641-792-7989

3012 Ansbrough Ave
Waterloo, IA, 50701
Phone: 319-235-4440
Fax: 319-235-2480

1155 Adams Suite 120
Kansas City, KS, 66103
Phone: 800-290-9873
Fax: 913-321-7837

PAGE: 1 of 1

PRINTOUT TYPE INFO BELOW:

SAMPLER: Waverly Yard & Waste Site
SITE NAME: Waverly Yard & Waste Site
ADDRESS: 11905 Gillette Street
CITY/ST/ZIP: Overland Park, KS 66213
PHONE: 913-235-4440

REPORT TO: NAME: Jeff Pritchard
CO. NAME: Seagull Environmental Tech
ADDRESS: 11905 Gillette Street
CITY/ST/ZIP: Overland Park, KS 66213
PHONE: 913-235-4440
FAX: 913-235-2480

BILL TO: NAME: SAME
CO. NAME: Seagull Environmental Tech
ADDRESS: 11905 Gillette Street
CITY/ST/ZIP: Overland Park, KS 66213
PHONE: 913-235-4440

CLIENT SAMPLE #	DATE	TIME	SAMPLE LOCATION	# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED				LAB USE ONLY			
							Wk Order #	Short Hold:	Rush:	Temp:	Sample Condition	Sample #		
SS-2-1	1-20-10	N/A	Treatment 2-1	1	Soil	C	0A1030					01		
SS-3-10	1-20-10	7	11 3-10	1	C	X						02		
SS-5-8	1-20-10		11 5-8	1	C	X						03		
SS-5-1	1-20-10		11 5-1	1	C	X						04		
SS-1-7	1-20-10		11 1-7	1	C	X						05		
SS-2-6	1-20-10		11 2-6	1	C	X						06		

Relinquished by: (Signature) <u>[Signature]</u>	Date: <u>1-26-10</u>	Received by: (Signature) <u>[Signature]</u>	Date: <u>1-27-10</u>	Remarks:
Relinquished by: (Signature) <u>[Signature]</u>	Time: <u>1400</u>	Received for Lab by: (Signature) <u>[Signature]</u>	Time: <u>10:05</u>	

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

SS-2-1

10A1030-01 (Soil)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	97.0	0.1	%	1	1A02817	01/28/10	01/28/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00118	02/01/10	02/04/10	EPA 6010B
Arsenic, total	ND	5.0	"	"	"	"	"	"
Barium, total	106	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	12.1	3.0	"	"	"	"	"	"
Mercury, total	0.23	0.15	"	"	1B00243	02/03/10	02/03/10	EPA 7471A
Lead, total	27.7	5.0	"	"	1B00118	02/01/10	02/04/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

SS-5-8

10A1030-03 (Soil)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	96.6	0.1	%	1	1A02817	01/28/10	01/28/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00118	02/01/10	02/04/10	EPA 6010B
Arsenic, total	ND	5.0	"	"	"	"	"	"
Barium, total	164	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	21.1	3.0	"	"	"	"	"	"
Mercury, total	0.20	0.14	"	"	1B00243	02/03/10	02/03/10	EPA 7471A
Lead, total	46.8	5.0	"	"	1B00118	02/01/10	02/04/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

SS-1-7

10A1030-05 (Soil)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	97.1	0.1	%	1	1A02817	01/28/10	01/28/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00118	02/01/10	02/04/10	EPA 6010B
Arsenic, total	13.5	5.0	"	"	"	"	"	"
Barium, total	638	1.00	"	"	"	"	"	"
Cadmium, total	5.3	1.0	"	"	"	"	"	"
Chromium, total	25.3	3.0	"	"	"	"	"	"
Mercury, total	0.25	0.15	"	"	1B00243	02/03/10	02/03/10	EPA 7471A
Lead, total	508	5.0	"	"	1B00118	02/01/10	02/04/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

SS-2-6

10A1030-06 (Soil)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	95.9	0.1	%	1	1A02817	01/28/10	01/28/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00118	02/01/10	02/04/10	EPA 6010B
Arsenic, total	ND	5.0	"	"	"	"	"	"
Barium, total	254	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	15.0	3.0	"	"	"	"	"	"
Mercury, total	ND	0.16	"	"	1B00243	02/03/10	02/03/10	EPA 7471A
Lead, total	164	5.0	"	"	1B00118	02/01/10	02/04/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02817 - Wet Chem Preparation

Duplicate (1A02817-DUP1)

Source: 10A1074-07

Prepared & Analyzed: 01/28/10

% Solids	1.5	0.1	%		1.6			5.26	20	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0212 - 1B00118

Calibration Blank (10B0212-CCB1)

Prepared & Analyzed: 02/02/10

Arsenic, total	-0.00640		mg/l	0.00000						
Cadmium, total	0.00		"	0.00000						
Lead, total	0.00420		"	0.00000						
Selenium, total	0.0035		"	0.00000						

Calibration Blank (10B0212-CCB2)

Prepared & Analyzed: 02/02/10

Arsenic, total	-0.00980		mg/l	0.00000						
Cadmium, total	-0.0002		"	0.00000						
Lead, total	-0.000800		"	0.00000						
Selenium, total	0.0014		"	0.00000						

Calibration Blank (10B0212-CCB3)

Prepared & Analyzed: 02/02/10

Arsenic, total	-0.00680		mg/l	0.00000						
Cadmium, total	0.0004		"	0.00000						
Lead, total	0.00320		"	0.00000						
Selenium, total	0.0031		"	0.00000						

Calibration Blank (10B0212-CCB4)

Prepared & Analyzed: 02/02/10

Arsenic, total	-0.00900		mg/l	0.00000						
Cadmium, total	0.0002		"	0.00000						
Lead, total	0.00300		"	0.00000						
Selenium, total	0.0069		"	0.00000						

Calibration Blank (10B0212-CCB5)

Prepared & Analyzed: 02/02/10

Arsenic, total	0.00110		mg/l	0.00000						
Selenium, total	0.0061		"	0.00000						

Calibration Check (10B0212-CCV1)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.01		mg/l	1.00000	101	90-110				
Cadmium, total	0.887		"	1.00000	88.7	90-110				
Lead, total	0.909		"	1.00000	90.9	90-110				
Selenium, total	0.9514		"	1.00000	95.1	90-110				

C-11

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0212 - 1B00118

Calibration Check (10B0212-CCV2)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.01		mg/l	1.00000		101	90-110			
Cadmium, total	0.852		"	1.00000		85.2	90-110			C-11
Lead, total	0.896		"	1.00000		89.6	90-110			C-11
Selenium, total	0.9394		"	1.00000		93.9	90-110			

Calibration Check (10B0212-CCV3)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.03		mg/l	1.00000		103	90-110			
Cadmium, total	0.849		"	1.00000		84.9	90-110			C-11
Lead, total	0.900		"	1.00000		90.0	90-110			
Selenium, total	0.9447		"	1.00000		94.5	90-110			

Calibration Check (10B0212-CCV4)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.04		mg/l	1.00000		104	90-110			
Cadmium, total	0.860		"	1.00000		86.0	90-110			C-11
Lead, total	0.912		"	1.00000		91.2	90-110			
Selenium, total	0.9674		"	1.00000		96.7	90-110			

Calibration Check (10B0212-CCV5)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.00		mg/l	1.00000		100	90-110			
Selenium, total	0.9249		"	1.00000		92.5	90-110			

High Cal Check (10B0212-HCV2)

Prepared & Analyzed: 02/02/10

Arsenic, total	20.1		mg/l	20.0000		100	90-110			
Cadmium, total	18.5		"	20.0000		92.4	90-110			
Lead, total	18.7		"	20.0000		93.6	90-110			
Selenium, total	18.58		"	20.0000		92.9	90-110			

High Cal Check (10B0212-HCV3)

Prepared & Analyzed: 02/02/10

Lead, total	97.3		mg/l	100.000		97.3	90-110			
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0212 - 1B00118

Initial Cal Blank (10B0212-ICB1)

Prepared & Analyzed: 02/02/10

Arsenic, total	-0.00220		mg/l	0.00000						
Cadmium, total	0.0009		"	0.00000						
Lead, total	-0.000400		"	0.00000						
Selenium, total	0.0057		"	0.00000						

Initial Cal Check (10B0212-ICV1)

Prepared & Analyzed: 02/02/10

Arsenic, total	1.03		mg/l	1.00000		103	90-110			
Cadmium, total	0.966		"	1.00000		96.6	90-110			
Lead, total	0.964		"	1.00000		96.4	90-110			
Selenium, total	0.9595		"	1.00000		96.0	90-110			

Secondary Cal Check (10B0212-SCV1)

Prepared & Analyzed: 02/02/10

Arsenic, total	0.526		mg/l	0.500000		105	90-110			
Cadmium, total	0.494		"	0.500000		98.7	90-110			
Lead, total	0.494		"	0.500000		98.7	90-110			
Selenium, total	0.4872		"	0.500000		97.4	90-110			

Batch 10B0309 - 1B00243

Cal Standard (10B0309-CAL1)

Prepared & Analyzed: 02/03/10

Mercury, total	0.00		mg/kg wet	0.00000						
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Cal Standard (10B0309-CAL7)

Prepared & Analyzed: 02/03/10

Mercury, total	0.0100		mg/kg wet	0.0100000		100				
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Calibration Blank (10B0309-CCB1)

Prepared & Analyzed: 02/03/10

Mercury, total	0.00004		mg/kg wet	0.00000						
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0309 - 1B00243

Calibration Blank (10B0309-CCB2)

Prepared & Analyzed: 02/03/10

Mercury, total	0.00007	mg/kg wet	0.00000
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Calibration Blank (10B0309-CCB3)

Prepared & Analyzed: 02/03/10

Mercury, total	0.000004	mg/kg wet	0.00000
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Instrument RL Check (10B0309-CRL1)

Prepared & Analyzed: 02/03/10

Mercury, total	0.0002	mg/kg wet	0.000200000	114	70-130
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Initial Cal Blank (10B0309-ICB1)

Prepared & Analyzed: 02/03/10

Mercury, total	0.00008	mg/kg wet	0.00000
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Batch 10B0315 - 1B00332

Calibration Blank (10B0315-CCB1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.00586	mg/l	0.00000
Barium, total	0.005	"	0.00000
Cadmium, total	0.0001	"	0.00000
Chromium, total	0.008	"	0.00000
Lead, total	-0.00161	"	0.00000
Selenium, total	-0.0003	"	0.00000
Silver, total	0.000004	"	0.00000

Calibration Blank (10B0315-CCB2)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.00563	mg/l	0.00000
Barium, total	0.005	"	0.00000
Cadmium, total	0.00002	"	0.00000
Chromium, total	0.012	"	0.00000
Lead, total	-0.00415	"	0.00000
Selenium, total	0.0051	"	0.00000
Silver, total	-0.00004	"	0.00000

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

Calibration Blank (10B0315-CCB3)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.0149		mg/l	0.00000						
Barium, total	0.005		"	0.00000						
Cadmium, total	-0.0002		"	0.00000						
Chromium, total	0.008		"	0.00000						
Lead, total	-0.00105		"	0.00000						
Selenium, total	-0.0036		"	0.00000						
Silver, total	0.0004		"	0.00000						

Calibration Blank (10B0315-CCB4)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	-0.00389		mg/l	0.00000						
Barium, total	0.005		"	0.00000						
Cadmium, total	0.0003		"	0.00000						
Chromium, total	0.009		"	0.00000						
Lead, total	0.00256		"	0.00000						
Selenium, total	0.0064		"	0.00000						
Silver, total	0.0005		"	0.00000						

Calibration Blank (10B0315-CCB5)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.0161		mg/l	0.00000						
Barium, total	0.005		"	0.00000						
Cadmium, total	-0.0009		"	0.00000						
Chromium, total	0.009		"	0.00000						
Lead, total	-0.00285		"	0.00000						
Selenium, total	0.0026		"	0.00000						
Silver, total	0.00001		"	0.00000						

Calibration Blank (10B0315-CCB6)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	-0.00542		mg/l	0.00000						
Barium, total	0.005		"	0.00000						
Cadmium, total	-0.0005		"	0.00000						
Chromium, total	0.009		"	0.00000						
Lead, total	0.000853		"	0.00000						
Selenium, total	0.0053		"	0.00000						
Silver, total	0.0006		"	0.00000						

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

Calibration Blank (10B0315-CCB7)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	-0.000854		mg/l	0.00000						
Barium, total	0.005		"	0.00000						
Cadmium, total	-0.001		"	0.00000						
Chromium, total	0.007		"	0.00000						
Lead, total	-0.000693		"	0.00000						
Selenium, total	0.0070		"	0.00000						
Silver, total	0.0003		"	0.00000						

Calibration Check (10B0315-CCV1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.989		mg/l	1.00000		98.9	90-110			
Barium, total	0.999		"	1.00000		99.9	90-110			
Cadmium, total	0.989		"	1.00000		98.9	90-110			
Chromium, total	1.00		"	1.00000		100	90-110			
Lead, total	0.975		"	1.00000		97.5	90-110			
Selenium, total	0.9921		"	1.00000		99.2	90-110			
Silver, total	0.994		"	1.00000		99.4	90-110			

Calibration Check (10B0315-CCV2)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.971		mg/l	1.00000		97.1	90-110			
Barium, total	1.01		"	1.00000		101	90-110			
Cadmium, total	0.994		"	1.00000		99.4	90-110			
Chromium, total	1.01		"	1.00000		101	90-110			
Lead, total	0.971		"	1.00000		97.1	90-110			
Selenium, total	0.9924		"	1.00000		99.2	90-110			
Silver, total	0.997		"	1.00000		99.7	90-110			

Calibration Check (10B0315-CCV3)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.995		mg/l	1.00000		99.5	90-110			
Barium, total	1.00		"	1.00000		100	90-110			
Cadmium, total	0.994		"	1.00000		99.4	90-110			
Chromium, total	1.02		"	1.00000		102	90-110			
Lead, total	0.972		"	1.00000		97.2	90-110			
Selenium, total	0.9947		"	1.00000		99.5	90-110			
Silver, total	0.997		"	1.00000		99.7	90-110			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 13 of 24

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

Calibration Check (10B0315-CCV4)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.991		mg/l	1.00000		99.1	90-110			
Barium, total	1.00		"	1.00000		100	90-110			
Cadmium, total	0.995		"	1.00000		99.5	90-110			
Chromium, total	1.03		"	1.00000		103	90-110			
Lead, total	0.973		"	1.00000		97.3	90-110			
Selenium, total	0.9903		"	1.00000		99.0	90-110			
Silver, total	1.01		"	1.00000		101	90-110			

Calibration Check (10B0315-CCV5)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.970		mg/l	1.00000		97.0	90-110			
Barium, total	0.985		"	1.00000		98.5	90-110			
Cadmium, total	0.986		"	1.00000		98.6	90-110			
Chromium, total	0.996		"	1.00000		99.6	90-110			
Lead, total	0.959		"	1.00000		95.9	90-110			
Selenium, total	0.9812		"	1.00000		98.1	90-110			
Silver, total	0.996		"	1.00000		99.6	90-110			

Calibration Check (10B0315-CCV6)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.985		mg/l	1.00000		98.5	90-110			
Barium, total	0.985		"	1.00000		98.5	90-110			
Cadmium, total	0.983		"	1.00000		98.3	90-110			
Chromium, total	0.996		"	1.00000		99.6	90-110			
Lead, total	0.962		"	1.00000		96.2	90-110			
Selenium, total	0.9841		"	1.00000		98.4	90-110			
Silver, total	0.985		"	1.00000		98.5	90-110			

Calibration Check (10B0315-CCV7)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.978		mg/l	1.00000		97.8	90-110			
Barium, total	0.975		"	1.00000		97.5	90-110			
Cadmium, total	0.979		"	1.00000		97.9	90-110			
Chromium, total	0.985		"	1.00000		98.5	90-110			
Lead, total	0.953		"	1.00000		95.3	90-110			
Selenium, total	0.9793		"	1.00000		97.9	90-110			
Silver, total	0.989		"	1.00000		98.9	90-110			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

High Cal Check (10B0315-HCV1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	9.94		mg/l	10.0000		99.4	90-110			
Barium, total	9.97		"	10.0000		99.7	90-110			
Cadmium, total	9.98		"	10.0000		99.8	90-110			
Chromium, total	10.1		"	10.0000		101	90-110			
Lead, total	9.83		"	10.0000		98.3	90-110			
Selenium, total	10.10		"	10.0000		101	90-110			
Silver, total	10.0		"	10.0000		100	90-110			

Interference Check A (10B0315-IFA1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.00181		mg/l				80-120			
Barium, total	0.006		"				80-120			
Cadmium, total	0.002		"				80-120			
Chromium, total	-0.009		"				80-120			
Lead, total	-0.000207		"				80-120			
Selenium, total	0.0069		"				80-120			
Silver, total	-0.012		"				80-120			

Interference Check B (10B0315-IFB1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.599		mg/l	0.500000		120	80-120			
Barium, total	0.484		"	0.500000		96.9	80-120			
Cadmium, total	0.500		"	0.500000		100	80-120			
Chromium, total	0.470		"	0.500000		94.0	80-120			
Lead, total	0.466		"	0.500000		93.3	80-120			
Selenium, total	0.5069		"	0.500000		101	80-120			
Silver, total	0.501		"	0.500000		100	80-120			

Low Cal Check (10B0315-LCV1)

Prepared: 02/03/10 Analyzed: 02/04/10

Cadmium, total	0.005		mg/l	0.00500000		92.7	70-130			
Silver, total	0.005		"	0.00500000		105	70-130			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

Low Cal Check (10B0315-LCV2)

Prepared: 02/03/10 Analyzed: 02/04/10

Barium, total	0.015		mg/l	0.0100000		146	70-130			QS-05
Cadmium, total	0.009		"	0.0100000		92.7	70-130			
Chromium, total	0.013		"	0.0100000		128	70-130			
Lead, total	0.00890		"	0.0100000		89.0	70-130			
Selenium, total	0.0122		"	0.0100000		122	70-130			
Silver, total	0.010		"	0.0100000		101	70-130			

Low Cal Check (10B0315-LCV3)

Prepared: 02/03/10 Analyzed: 02/04/10

Barium, total	0.025		mg/l	0.0200000		124	70-130			
Cadmium, total	0.020		"	0.0200000		98.4	70-130			
Chromium, total	0.021		"	0.0200000		105	70-130			
Lead, total	0.0187		"	0.0200000		93.4	70-130			
Selenium, total	0.0205		"	0.0200000		103	70-130			
Silver, total	0.021		"	0.0200000		103	70-130			

Low Cal Check (10B0315-LCV4)

Prepared: 02/03/10 Analyzed: 02/04/10

Barium, total	0.035		mg/l	0.0300000		116	70-130			
Cadmium, total	0.030		"	0.0300000		98.8	70-130			
Chromium, total	0.029		"	0.0300000		95.7	70-130			
Lead, total	0.0291		"	0.0300000		97.0	70-130			
Selenium, total	0.0352		"	0.0300000		117	70-130			
Silver, total	0.030		"	0.0300000		101	70-130			

Low Cal Check (10B0315-LCV5)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.0577		mg/l	0.0500000		115	70-130			
Barium, total	0.054		"	0.0500000		109	70-130			
Cadmium, total	0.050		"	0.0500000		99.1	70-130			
Chromium, total	0.060		"	0.0500000		120	70-130			
Lead, total	0.0505		"	0.0500000		101	70-130			
Selenium, total	0.0583		"	0.0500000		117	70-130			
Silver, total	0.050		"	0.0500000		101	70-130			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0315 - 1B00332

Low Cal Check (10B0315-LCV6)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	0.109		mg/l	0.100000		109	70-130			
Barium, total	0.102		"	0.100000		102	70-130			
Cadmium, total	0.100		"	0.100000		100	70-130			
Chromium, total	0.106		"	0.100000		106	70-130			
Lead, total	0.0993		"	0.100000		99.3	70-130			
Selenium, total	0.0996		"	0.100000		99.6	70-130			
Silver, total	0.100		"	0.100000		100	70-130			

Secondary Cal Check (10B0315-SCV1)

Prepared: 02/03/10 Analyzed: 02/04/10

Arsenic, total	2.19		mg/l	2.00000		109	90-110			
Barium, total	2.04		"	2.00000		102	90-110			
Cadmium, total	2.05		"	2.00000		103	90-110			
Chromium, total	2.03		"	2.00000		101	90-110			
Lead, total	2.00		"	2.00000		100	90-110			
Selenium, total	2.007		"	2.00000		100	90-110			
Silver, total	2.09		"	2.00000		105	90-110			

Batch 1B00118 - EPA 3050B Solid Dig

Blank (1B00118-BLK1)

Prepared: 02/01/10 Analyzed: 02/02/10

Arsenic, total	ND	2.0	mg/kg wet							
Cadmium, total	ND	1.0	"							
Lead, total	ND	5.0	"							
Selenium, total	ND	2.0	"							

Blank (1B00118-BLK2)

Prepared: 02/01/10 Analyzed: 02/04/10

Arsenic, total	ND	5.0	mg/kg wet							
Barium, total	ND	1.00	"							
Cadmium, total	ND	1.0	"							
Chromium, total	ND	3.0	"							
Lead, total	ND	5.0	"							
Selenium, total	ND	5.0	"							
Silver, total	ND	1.0	"							

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00118 - EPA 3050B Solid Dig

LCS (1B00118-BS1)

Prepared: 02/01/10 Analyzed: 02/02/10

Arsenic, total	186	2.0	mg/kg wet	200.000		93.2	76-110			
Cadmium, total	158	1.0	"	200.000		79.2	76-114			
Lead, total	168	5.0	"	200.000		83.9	68-121			
Selenium, total	154	2.0	"	200.000		76.8	65-110			

LCS (1B00118-BS2)

Prepared: 02/01/10 Analyzed: 02/04/10

Arsenic, total	182	5.0	mg/kg wet	200.000		90.9	76-110			
Barium, total	187	1.00	"	200.000		93.6	82-111			
Cadmium, total	185	1.0	"	200.000		92.5	76-114			
Chromium, total	188	3.0	"	200.000		94.2	68-124			
Lead, total	184	5.0	"	200.000		92.0	68-121			
Selenium, total	152	5.0	"	200.000		76.1	65-110			
Silver, total	138	1.0	"	200.000		69.2	82-111			QS-01

Matrix Spike (1B00118-MS1)

Source: 10A0890-03RE1

Prepared: 02/01/10 Analyzed: 02/02/10

Arsenic, total	193	2.0	mg/kg dry	219.099	4.2	86.0	60-113			
Cadmium, total	148	1.0	"	219.099	ND	67.6	60-113			
Lead, total	168	5.0	"	219.099	7.7	73.1	60-140			
Selenium, total	152	2.0	"	219.099	ND	69.5	60-110			

Matrix Spike (1B00118-MS2)

Source: 10A0890-03

Prepared: 02/01/10 Analyzed: 02/04/10

Arsenic, total	209	5.0	mg/kg dry	219.099	5.7	93.0	60-113			
Barium, total	390	1.00	"	219.099	161	104	60-140			
Cadmium, total	194	1.0	"	219.099	0.6	88.5	60-113			
Chromium, total	220	3.0	"	219.099	17.2	92.5	60-130			
Lead, total	200	5.0	"	219.099	9.9	87.0	60-140			
Selenium, total	171	5.0	"	219.099	ND	78.1	60-110			
Silver, total	187	1.0	"	219.099	ND	85.4	60-122			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00118 - EPA 3050B Solid Dig

Matrix Spike Dup (1B00118-MSD1)

Source: 10A0890-03RE1

Prepared: 02/01/10 Analyzed: 02/02/10

Arsenic, total	190	2.0	mg/kg dry	218.620	4.2	85.1	60-113	0.998	19	
Cadmium, total	148	1.0	"	218.620	ND	67.8	60-113	0.369	27	
Lead, total	167	5.0	"	218.620	7.7	72.7	60-140	0.422	20	
Selenium, total	154	2.0	"	218.620	ND	70.4	60-110	1.36	17	

Matrix Spike Dup (1B00118-MSD2)

Source: 10A0890-03

Prepared: 02/01/10 Analyzed: 02/04/10

Arsenic, total	215	5.0	mg/kg dry	218.620	5.7	95.9	60-113	3.14	19	
Barium, total	370	1.00	"	218.620	161	95.3	60-140	8.89	26	
Cadmium, total	199	1.0	"	218.620	0.6	90.6	60-113	2.39	27	
Chromium, total	220	3.0	"	218.620	17.2	92.8	60-130	0.360	22	
Lead, total	206	5.0	"	218.620	9.9	89.6	60-140	2.98	20	
Selenium, total	176	5.0	"	218.620	ND	80.3	60-110	2.84	17	
Silver, total	191	1.0	"	218.620	ND	87.3	60-122	2.15	15	

Post Spike (1B00118-PS1)

Source: 10A0890-03RE1

Prepared: 02/01/10 Analyzed: 02/02/10

Arsenic, total	1.8		mg/kg dry	2.00000	4.2	NR	72-110			
Cadmium, total	1.4		"	2.00000	-0.2	78.8	70-110			PS-03
Lead, total	1.6		"	2.00000	7.7	NR	60-123			
Selenium, total	1.4		"	2.00000	-0.2	81.8	60-110			

Post Spike (1B00118-PS2)

Source: 10A0890-03

Prepared: 02/01/10 Analyzed: 02/04/10

Arsenic, total	1.9		mg/kg dry	2.00000	5.7	NR	72-110			
Barium, total	3.32		"	2.00000	161	NR	68-114			
Cadmium, total	1.9		"	2.00000	0.6	63.3	70-110			
Chromium, total	2.1		"	2.00000	17.2	NR	65-122			
Lead, total	1.9		"	2.00000	9.9	NR	60-123			
Selenium, total	1.6		"	2.00000	-3.0	232	60-110			
Silver, total	1.9		"	2.00000	-1.4	169	75-114			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00243 - EPA 7471A Hg Solid

Blank (1B00243-BLK1)

Prepared: 02/02/10 Analyzed: 02/03/10

Mercury, total ND 0.25 mg/kg wet

LCS (1B00243-BS1)

Prepared: 02/02/10 Analyzed: 02/03/10

Mercury, total 1.06 0.25 mg/kg wet 1.00000 106 81-124

Matrix Spike (1B00243-MS1)

Source: 10A0890-01

Prepared: 02/02/10 Analyzed: 02/03/10

Mercury, total 0.912 0.14 mg/kg dry 0.772864 ND 118 66-137

Matrix Spike Dup (1B00243-MSD1)

Source: 10A0890-01

Prepared: 02/02/10 Analyzed: 02/03/10

Mercury, total 0.891 0.14 mg/kg dry 0.768272 ND 116 66-137 1.71 27

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
<i>EPA 200.7 in Water</i>		
	Cadmium, total	SIA1X
	Chromium, total	SIA1X
	Copper, dissolved	SIA1X
	Copper, total	SIA1X
	Iron, total	SIA1X
	Lead, total	SIA1X
	Nickel, total	SIA1X
	Silver, total	SIA1X
	Zinc, total	SIA1X
<i>EPA 6010B in Soil</i>		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Potassium, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC
<i>EPA 6010B in Water</i>		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
<i>EPA 7471A in Soil</i>		
	Mercury, total	IA-NT,KS-NT,NELAC
<i>SM 2540 G in Soil</i>		
	% Solids	SIA1X
<i>SM 3120B in Water</i>		
	Silver, total	IA-NT,KS-NT,NELAC

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Code	Certifying Authority	Certificate Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	095	02/01/2010

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

Notes and Definitions

UJ	The analyte was analyzed for, but not detected. Due to a quality control deficiency identified during data validation the value reported may not accurately reflect the sample quantitation limit.
QS-05	The spike recovery for this QC sample exceeded established acceptance limits.
QS-01	The blank spike recovery was outside acceptance limits. Batch accepted based on acceptable MS/MSD/RPD results.
QM-07	The spike recovery and/or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
PS-03	The post spike recovery was below acceptance limits.
J-	The analyte was positively identified; the quantitation is an estimation with a potential low bias.
C-11	The CCV was outside established acceptance limits. Batch was accepted based on acceptable LCS and/or MS/MSD recoveries.
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

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
02/09/10 10:41

A handwritten signature in black ink that reads "Sue Thompson". The signature is fluid and cursive.

Sue Thompson
Project Manager I

09 February 2010

Joel Harvester
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

RE: Waverly - Soil
Waverly

Enclosed are the results of analyses for samples received by the laboratory on 02/02/10 10:25. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS 1-4	10B0020-01	Soil	01/19/10 00:00	02/02/10 10:25
SS 1-10	10B0020-02	Soil	01/19/10 00:00	02/02/10 10:25

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

SS 1-4

10B0020-01 (Soil)

Date Sampled: 1/19/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	95.4	0.1	%	1	1B00303	02/03/10	02/03/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00411	02/04/10	02/08/10	EPA 6010B
Arsenic, total	6.0	5.0	"	"	"	"	"	"
Barium, total	199	1.00	"	"	"	"	"	"
Cadmium, total	ND	1.0	"	"	"	"	"	"
Chromium, total	16.4	3.0	"	"	"	"	"	"
Mercury, total	0.24	0.24	"	"	1B00812	02/08/10	02/08/10	EPA 7471A
Lead, total	110	5.0	"	"	1B00411	02/04/10	02/08/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

SS 1-10

10B0020-02 (Soil)

Date Sampled: 1/19/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Conventional Chemistry Parameters

% Solids	97.5	0.1	%	1	1B00303	02/03/10	02/03/10	SM 2540 G
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Determination of Total Metals

Silver, total	ND	1.0	mg/kg dry	1	1B00411	02/04/10	02/08/10	EPA 6010B
Arsenic, total	ND	5.0	"	"	"	"	"	"
Barium, total	197	1.00	"	"	"	"	"	"
Cadmium, total	2.0	1.0	"	"	"	"	"	"
Chromium, total	15.4	3.0	"	"	"	"	"	"
Mercury, total	0.24	0.23	"	"	1B00812	02/08/10	02/08/10	EPA 7471A
Lead, total	311	5.0	"	"	1B00411	02/04/10	02/08/10	EPA 6010B
Selenium, total	ND	5.0	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00303 - Wet Chem Preparation

Duplicate (1B00303-DUP1)

Source: 10B0020-02

Prepared & Analyzed: 02/03/10

% Solids	97.8	0.1	%		97.5			0.358	20	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

Calibration Blank (10B0805-CCB1)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.00506		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.0005		"	0.00000						
Chromium, total	0.007		"	0.00000						
Lead, total	-0.000271		"	0.00000						
Selenium, total	-0.0015		"	0.00000						
Silver, total	-0.0002		"	0.00000						

Calibration Blank (10B0805-CCB2)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.0238		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.002		"	0.00000						
Chromium, total	0.005		"	0.00000						
Lead, total	-0.000937		"	0.00000						
Selenium, total	-0.0039		"	0.00000						
Silver, total	0.00008		"	0.00000						

Calibration Blank (10B0805-CCB3)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.0112		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.0007		"	0.00000						
Chromium, total	0.002		"	0.00000						
Lead, total	-0.00169		"	0.00000						
Selenium, total	-0.0003		"	0.00000						
Silver, total	0.0006		"	0.00000						

Calibration Blank (10B0805-CCB4)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.00574		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.00007		"	0.00000						
Chromium, total	0.0008		"	0.00000						
Lead, total	-0.00136		"	0.00000						
Selenium, total	-0.0040		"	0.00000						
Silver, total	-0.0003		"	0.00000						

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

Calibration Blank (10B0805-CCB5)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.000550		mg/l	0.00000						
Barium, total	0.002		"	0.00000						
Cadmium, total	0.0004		"	0.00000						
Chromium, total	0.007		"	0.00000						
Lead, total	-0.00227		"	0.00000						
Selenium, total	0.0033		"	0.00000						
Silver, total	-0.0003		"	0.00000						

Calibration Blank (10B0805-CCB6)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.00837		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.0003		"	0.00000						
Chromium, total	0.011		"	0.00000						
Lead, total	-0.00390		"	0.00000						
Selenium, total	-0.0075		"	0.00000						
Silver, total	0.001		"	0.00000						

Calibration Blank (10B0805-CCB7)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.0153		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	0.0006		"	0.00000						
Chromium, total	0.012		"	0.00000						
Lead, total	-0.00326		"	0.00000						
Selenium, total	-0.0015		"	0.00000						
Silver, total	0.0003		"	0.00000						

Calibration Blank (10B0805-CCB8)

Prepared & Analyzed: 02/08/10

Arsenic, total	-0.0192		mg/l	0.00000						
Barium, total	0.001		"	0.00000						
Cadmium, total	-0.001		"	0.00000						
Chromium, total	0.009		"	0.00000						
Lead, total	-0.000213		"	0.00000						
Selenium, total	-0.0013		"	0.00000						
Silver, total	0.001		"	0.00000						

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

Calibration Check (10B0805-CCV1)

Prepared & Analyzed: 02/08/10

Arsenic, total	1.00		mg/l	1.00000		100	90-110			
Barium, total	0.981		"	1.00000		98.1	90-110			
Cadmium, total	0.992		"	1.00000		99.2	90-110			
Chromium, total	0.998		"	1.00000		99.8	90-110			
Lead, total	0.964		"	1.00000		96.4	90-110			
Selenium, total	1.059		"	1.00000		106	90-110			
Silver, total	0.988		"	1.00000		98.8	90-110			

Calibration Check (10B0805-CCV2)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.976		mg/l	1.00000		97.6	90-110			
Barium, total	0.976		"	1.00000		97.6	90-110			
Cadmium, total	0.995		"	1.00000		99.5	90-110			
Chromium, total	0.990		"	1.00000		99.0	90-110			
Lead, total	0.955		"	1.00000		95.5	90-110			
Selenium, total	1.060		"	1.00000		106	90-110			
Silver, total	0.994		"	1.00000		99.4	90-110			

Calibration Check (10B0805-CCV3)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.999		mg/l	1.00000		99.9	90-110			
Barium, total	0.985		"	1.00000		98.5	90-110			
Cadmium, total	0.996		"	1.00000		99.6	90-110			
Chromium, total	1.00		"	1.00000		100	90-110			
Lead, total	0.965		"	1.00000		96.5	90-110			
Selenium, total	1.067		"	1.00000		107	90-110			
Silver, total	0.996		"	1.00000		99.6	90-110			

Calibration Check (10B0805-CCV4)

Prepared & Analyzed: 02/08/10

Arsenic, total	1.03		mg/l	1.00000		103	90-110			
Barium, total	0.997		"	1.00000		99.7	90-110			
Cadmium, total	1.01		"	1.00000		101	90-110			
Chromium, total	1.01		"	1.00000		101	90-110			
Lead, total	0.962		"	1.00000		96.2	90-110			
Selenium, total	1.066		"	1.00000		107	90-110			
Silver, total	1.01		"	1.00000		101	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

Calibration Check (10B0805-CCV5)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.970		mg/l	1.00000		97.0	90-110			
Barium, total	0.961		"	1.00000		96.1	90-110			
Cadmium, total	0.996		"	1.00000		99.6	90-110			
Chromium, total	0.977		"	1.00000		97.7	90-110			
Lead, total	0.941		"	1.00000		94.1	90-110			
Selenium, total	1.053		"	1.00000		105	90-110			
Silver, total	1.00		"	1.00000		100	90-110			

Calibration Check (10B0805-CCV6)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.998		mg/l	1.00000		99.8	90-110			
Barium, total	0.986		"	1.00000		98.6	90-110			
Cadmium, total	0.988		"	1.00000		98.8	90-110			
Chromium, total	0.995		"	1.00000		99.5	90-110			
Lead, total	0.954		"	1.00000		95.4	90-110			
Selenium, total	1.050		"	1.00000		105	90-110			
Silver, total	0.978		"	1.00000		97.8	90-110			

Calibration Check (10B0805-CCV7)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.973		mg/l	1.00000		97.3	90-110			
Barium, total	0.989		"	1.00000		98.9	90-110			
Cadmium, total	0.992		"	1.00000		99.2	90-110			
Chromium, total	1.01		"	1.00000		101	90-110			
Lead, total	0.945		"	1.00000		94.5	90-110			
Selenium, total	1.051		"	1.00000		105	90-110			
Silver, total	0.998		"	1.00000		99.8	90-110			

Calibration Check (10B0805-CCV8)

Prepared & Analyzed: 02/08/10

Arsenic, total	1.07		mg/l	1.00000		107	90-110			
Barium, total	1.02		"	1.00000		102	90-110			
Cadmium, total	1.01		"	1.00000		101	90-110			
Chromium, total	1.03		"	1.00000		103	90-110			
Lead, total	1.01		"	1.00000		101	90-110			
Selenium, total	1.084		"	1.00000		108	90-110			
Silver, total	0.976		"	1.00000		97.6	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

High Cal Check (10B0805-HCV1)

Prepared & Analyzed: 02/08/10

Arsenic, total	9.85		mg/l	10.0000		98.5	90-110			
Barium, total	9.89		"	10.0000		98.9	90-110			
Cadmium, total	10.0		"	10.0000		100	90-110			
Chromium, total	9.83		"	10.0000		98.3	90-110			
Lead, total	9.72		"	10.0000		97.2	90-110			
Selenium, total	10.70		"	10.0000		107	90-110			
Silver, total	9.42		"	10.0000		94.2	90-110			

Low Cal Check (10B0805-LCV1)

Prepared & Analyzed: 02/08/10

Cadmium, total	0.006		mg/l	0.00500000		127	70-130			
Silver, total	0.006		"	0.00500000		117	70-130			

Low Cal Check (10B0805-LCV2)

Prepared & Analyzed: 02/08/10

Barium, total	0.011		mg/l	0.0100000		111	70-130			
Cadmium, total	0.011		"	0.0100000		107	70-130			
Lead, total	0.0101		"	0.0100000		101	70-130			
Selenium, total	0.0084		"	0.0100000		83.6	70-130			
Silver, total	0.010		"	0.0100000		102	70-130			

Low Cal Check (10B0805-LCV3)

Prepared & Analyzed: 02/08/10

Barium, total	0.021		mg/l	0.0200000		105	70-130			
Cadmium, total	0.020		"	0.0200000		100	70-130			
Chromium, total	0.025		"	0.0200000		126	70-130			
Lead, total	0.0203		"	0.0200000		101	70-130			
Selenium, total	0.0159		"	0.0200000		79.6	70-130			
Silver, total	0.020		"	0.0200000		98.8	70-130			

Low Cal Check (10B0805-LCV4)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.0219		mg/l	0.0300000		73.0	70-130			
Barium, total	0.030		"	0.0300000		101	70-130			
Cadmium, total	0.029		"	0.0300000		97.2	70-130			
Chromium, total	0.039		"	0.0300000		130	70-130			
Lead, total	0.0279		"	0.0300000		93.0	70-130			
Selenium, total	0.0247		"	0.0300000		82.2	70-130			
Silver, total	0.029		"	0.0300000		98.2	70-130			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0805 - 1B00436

Low Cal Check (10B0805-LCV5)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.0285		mg/l	0.0500000		56.9	70-130			QS-07
Barium, total	0.050		"	0.0500000		99.0	70-130			
Cadmium, total	0.050		"	0.0500000		99.0	70-130			
Chromium, total	0.057		"	0.0500000		114	70-130			
Lead, total	0.0477		"	0.0500000		95.4	70-130			
Selenium, total	0.0483		"	0.0500000		96.7	70-130			
Silver, total	0.049		"	0.0500000		98.1	70-130			

Low Cal Check (10B0805-LCV6)

Prepared & Analyzed: 02/08/10

Arsenic, total	0.0882		mg/l	0.100000		88.2	70-130			
Barium, total	0.098		"	0.100000		97.6	70-130			
Cadmium, total	0.099		"	0.100000		99.2	70-130			
Chromium, total	0.105		"	0.100000		105	70-130			
Lead, total	0.0942		"	0.100000		94.2	70-130			
Selenium, total	0.1110		"	0.100000		111	70-130			
Silver, total	0.100		"	0.100000		99.8	70-130			

Secondary Cal Check (10B0805-SCV1)

Prepared & Analyzed: 02/08/10

Arsenic, total	2.16		mg/l	2.00000		108	90-110			
Barium, total	1.98		"	2.00000		99.2	90-110			
Cadmium, total	2.03		"	2.00000		102	90-110			
Chromium, total	1.99		"	2.00000		99.7	90-110			
Lead, total	2.01		"	2.00000		100	90-110			
Selenium, total	2.202		"	2.00000		110	90-110			
Silver, total	2.09		"	2.00000		104	90-110			

Batch 10B0813 - 1B00812

Cal Standard (10B0813-CAL1)

Prepared & Analyzed: 02/08/10

Mercury, total	0.00		mg/kg wet	0.00000						
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B0813 - 1B00812										
Cal Standard (10B0813-CAL2)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0002		mg/kg wet	0.000200000		100				
Cal Standard (10B0813-CAL3)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0005		mg/kg wet	0.000500000		100				
Cal Standard (10B0813-CAL4)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0010		mg/kg wet	0.001000000		100				
Cal Standard (10B0813-CAL5)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0020		mg/kg wet	0.002000000		100				
Cal Standard (10B0813-CAL6)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0030		mg/kg wet	0.003000000		100				
Cal Standard (10B0813-CAL7)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0100		mg/kg wet	0.010000000		100				
Calibration Blank (10B0813-CCB1)				Prepared & Analyzed: 02/08/10						
Mercury, total	-0.00001		mg/kg wet	0.00000						
Calibration Blank (10B0813-CCB2)				Prepared & Analyzed: 02/08/10						
Mercury, total	-0.00001		mg/kg wet	0.00000						
Calibration Blank (10B0813-CCB3)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.00002		mg/kg wet	0.00000						
Calibration Check (10B0813-CCV1)				Prepared & Analyzed: 02/08/10						
Mercury, total	0.0020		mg/kg wet	0.002000000		101	80-120			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
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Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0813 - 1B00812

Calibration Check (10B0813-CCV2)

Prepared & Analyzed: 02/08/10

Mercury, total	0.0021		mg/kg wet	0.00200000	104	80-120
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Calibration Check (10B0813-CCV3)

Prepared & Analyzed: 02/08/10

Mercury, total	0.0021		mg/kg wet	0.00200000	104	80-120
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Instrument RL Check (10B0813-CRL1)

Prepared & Analyzed: 02/08/10

Mercury, total	0.0002		mg/kg wet	0.000200000	104	70-130
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Initial Cal Blank (10B0813-ICB1)

Prepared & Analyzed: 02/08/10

Mercury, total	-0.00002		mg/kg wet	0.00000		
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Initial Cal Check (10B0813-ICV1)

Prepared & Analyzed: 02/08/10

Mercury, total	0.0021		mg/kg wet	0.00200000	106	80-120
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Secondary Cal Check (10B0813-SCV1)

Prepared & Analyzed: 02/08/10

Mercury, total	0.0021		mg/kg wet	0.00200000	104	80-120
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Batch 1B00411 - EPA 3050B Solid Dig

Blank (1B00411-BLK1)

Prepared: 02/04/10 Analyzed: 02/08/10

Arsenic, total	ND	2.5	mg/kg wet
Barium, total	ND	0.50	"
Cadmium, total	ND	0.5	"
Chromium, total	ND	1.5	"
Lead, total	ND	2.5	"
Selenium, total	ND	2.5	"
Silver, total	ND	0.5	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00411 - EPA 3050B Solid Dig

LCS (1B00411-BS1)

Prepared: 02/04/10 Analyzed: 02/08/10

Arsenic, total	87.2	2.5	mg/kg wet	100.000		87.2	76-110			
Barium, total	89.0	0.50	"	100.000		89.0	82-111			
Cadmium, total	90.4	0.5	"	100.000		90.4	76-114			
Chromium, total	90.0	1.5	"	100.000		90.0	68-124			
Lead, total	88.6	2.5	"	100.000		88.6	68-121			
Selenium, total	76.3	2.5	"	100.000		76.3	65-110			
Silver, total	92.4	0.5	"	100.000		92.4	82-111			

Matrix Spike (1B00411-MS1)

Source: 10B0020-01

Prepared: 02/04/10 Analyzed: 02/08/10

Arsenic, total	205	5.0	mg/kg dry	201.025	6.0	98.8	60-113			
Barium, total	397	1.00	"	201.025	199	98.8	60-140			
Cadmium, total	180	1.0	"	201.025	0.7	89.2	60-113			
Chromium, total	202	3.0	"	201.025	16.4	92.1	60-130			
Lead, total	282	5.0	"	201.025	110	85.6	60-140			
Selenium, total	173	5.0	"	201.025	ND	86.2	60-110			
Silver, total	142	1.0	"	201.025	ND	70.7	60-122			

Matrix Spike Dup (1B00411-MSD1)

Source: 10B0020-01

Prepared: 02/04/10 Analyzed: 02/08/10

Arsenic, total	212	5.0	mg/kg dry	200.987	6.0	103	60-113	3.82	19	
Barium, total	406	1.00	"	200.987	199	103	60-140	4.30	26	
Cadmium, total	186	1.0	"	200.987	0.7	92.2	60-113	3.31	27	
Chromium, total	205	3.0	"	200.987	16.4	93.6	60-130	1.62	22	
Lead, total	290	5.0	"	200.987	110	89.7	60-140	4.75	20	
Selenium, total	179	5.0	"	200.987	ND	89.2	60-110	3.40	17	
Silver, total	185	1.0	"	200.987	ND	91.9	60-122	26.0	15	QR-02

Post Spike (1B00411-PS1)

Source: 10B0020-01

Prepared: 02/04/10 Analyzed: 02/08/10

Arsenic, total	2.1		mg/kg dry	2.00000	6.0	NR	72-110			
Barium, total	4.06		"	2.00000	199	NR	68-114			
Cadmium, total	1.9		"	2.00000	0.7	58.6	70-110			
Chromium, total	2.1		"	2.00000	16.4	NR	65-122			
Lead, total	3.0		"	2.00000	110	NR	60-123			
Selenium, total	1.8		"	2.00000	-0.2	104	60-110			
Silver, total	1.9		"	2.00000	0.07	93.9	75-114			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00812 - EPA 7471A Hg Solid

Blank (1B00812-BLK1)

Prepared & Analyzed: 02/08/10

Mercury, total ND 0.25 mg/kg wet

LCS (1B00812-BS1)

Prepared & Analyzed: 02/08/10

Mercury, total 1.04 0.25 mg/kg wet 1.00000 104 81-124

Matrix Spike (1B00812-MS1)

Source: 10B0020-01

Prepared & Analyzed: 02/08/10

Mercury, total 1.05 0.24 mg/kg dry 0.997667 0.242 81.3 66-137

Matrix Spike Dup (1B00812-MSD1)

Source: 10B0020-01

Prepared & Analyzed: 02/08/10

Mercury, total 0.962 0.24 mg/kg dry 1.02297 0.242 70.4 66-137 14.4 27

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
200.7 in Drink Wtr		
	Calcium, total	SIA1X
	Sodium, total	SIA1X
EPA 200.7 in Water		
	Cadmium, total	SIA1X
	Chromium, total	SIA1X
	Copper, total	SIA1X
	Iron, total	SIA1X
	Lead, total	SIA1X
	Manganese, total	SIA1X
	Molybdenum, total	SIA1X
	Nickel, total	SIA1X
	Silver, total	SIA1X
	Zinc, total	SIA1X
	Hardness, Total as CaCO ₃	KS-NT,NELAC
EPA 6010B in Soil		
	Aluminum, total	IA-NT,KS-NT,NELAC
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Cobalt, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Iron, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Potassium, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC
EPA 6010B in Water		
	Arsenic, total	IA-NT,KS-NT
	Barium, total	IA-NT,KS-NT,NELAC
	Cadmium, total	IA-NT,KS-NT,NELAC
	Chromium, total	IA-NT,KS-NT,NELAC
	Cobalt, total	IA-NT,KS-NT,NELAC
	Copper, total	IA-NT,KS-NT,NELAC
	Lead, total	IA-NT,KS-NT,NELAC
	Molybdenum, total	IA-NT,KS-NT,NELAC
	Nickel, total	IA-NT,KS-NT,NELAC
	Selenium, total	IA-NT,KS-NT
	Silver, total	IA-NT,KS-NT,NELAC
	Zinc, total	IA-NT,KS-NT,NELAC

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Page 15 of 18

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

EPA 7471A in Other

Mercury, total IA-NT,KS-NT,NELAC

EPA 7471A in Soil

Mercury, total IA-NT,KS-NT,NELAC

SM 2540 G in Soil

% Solids SIA1X

SM 3120B in Water

Cadmium, total IA-NT,KS-NT,NELAC
Chromium, total IA-NT,KS-NT,NELAC
Copper, total IA-NT,KS-NT,NELAC
Iron, total IA-NT,KS-NT,NELAC
Lead, total IA-NT,KS-NT,NELAC
Nickel, total IA-NT,KS-NT,NELAC
Silver, total IA-NT,KS-NT,NELAC
Zinc, total IA-NT,KS-NT,NELAC

Code	Certifying Authority	Certificate Number	Expires
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010
SIA1X	Iowa Department of Natural Resources	095	02/01/2010

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

Notes and Definitions

R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QS-07	The spike recovery for this QC sample was below established acceptance limits.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Soil
Project Number: Waverly
Project Manager: Joel Harvester

Reported
02/09/10 13:48

A handwritten signature in black ink that reads "Sue Thompson".

Sue Thompson
Project Manager I

04 February 2010

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

RE: Waverly - Water
Ottumwa

Enclosed are the results of analyses for samples received by the laboratory on 01/21/10 14:20. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-GW	10A0885-01	Water	01/19/10 09:20	01/21/10 14:20
B-3-GW	10A0885-02	Water	01/19/10 10:50	01/21/10 14:20
B-11-GW	10A0885-03	Water	01/19/10 16:15	01/21/10 14:20
B-9-GW	10A0885-04	Water	01/19/10 16:35	01/21/10 14:20
B-7-GW	10A0885-05	Water	01/20/10 08:20	01/21/10 14:20
Equipment Blank	10A0885-06	Water	01/20/10 08:40	01/21/10 14:20
Trip Blank	10A0885-07	Water	01/20/10 00:00	01/21/10 14:20
Field Blank	10A0885-08	Water	01/18/10 18:20	01/21/10 14:20

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

CHAIN OF CUSTODY RECORD

600 East 17th Street South
Newton, IA 50208
641-792-8451

Keystone
LABORATORIES, INC.

Page 1 of 3

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REPORT TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

INVOICE TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

LAB USE ONLY
Work Order: 10A-0885
Temperature: _____
Turn-Cooler: No

Custody Seal
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received on Ice

SPECIAL INSTRUCTIONS
None

Turn Around Time
☐ Standard ☐ RUSH, need by 1/1

SITE INFORMATION
Sampler: LM
Project: Waverly - Water
Ottumwa

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
01-001	<u>B-1-GW</u>	Water	GRAB	<u>1/4/10</u>	<u>0920</u>	<u>7</u>	recont-i-icpms-water recont-d-sw-icpms oa2-iowa 8270-104	<u>01</u>
02-001	<u>B-3-GW</u>	Water	GRAB	<u>1/4/10</u>	<u>1050</u>	<u>7</u>	recont-i-icpms-water recont-d-sw-icpms oa2-iowa 8270-104	<u>02</u>
03-001	<u>B-11-GW</u>	Water	GRAB	<u>1/4/10</u>	<u>1615</u>	<u>17</u>	recont-i-icpms-water recont-d-sw-icpms oa2-iowa 8270-104	<u>03</u>
04-001	<u>B-9-GW</u>	Water	GRAB	<u>1/4/10</u>	<u>1635</u>	<u>7</u>	recont-i-icpms-water recont-d-sw-icpms oa2-iowa 8270-104	<u>04</u>
05-001	<u>B-7-GW</u>	Water	GRAB	<u>1/20/10</u>	<u>0920</u>	<u>7</u>	recont-i-icpms-water recont-d-sw-icpms oa2-iowa 8270-104	<u>05</u>

Relinquished By Dana Mann Date/Time 1/2/10 1420

Relinquished By M. Mann Date/Time 1-2-10 2:30

Received By _____ Date/Time _____

Remarks:

Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

CHAIN OF CUSTODY RECORD

600 East 17th Street South
Newton, IA 50208
641-792-8451

Keystone
LABORATORIES, INC.

Page 2 of 3

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REPORT TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

INVOICE TO
Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

LAB USE ONLY
Work Order 104 0885
Temperature No
Turn-Cooler: No

SPECIAL INSTRUCTIONS
None

SITE INFORMATION
Sampler: Waverly - Water
Project: Ottumwa

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
06-001		Water	GRAB	1/1			rebrand-i-icpus-water rebrand-d-sw-icpus oa2-iowa 8270-104 8260-100	
07-001		Water	GRAB	1/1			rebrand-i-icpus-water rebrand-d-sw-icpus oa2-iowa 8270-104 8260-100	
08-001	<u>EQUIPMENT BLANK</u>	Water	GRAB	1/20/10	0840	7	rebrand-i-icpus-water rebrand-d-sw-icpus oa2-iowa 8270-104 8260-100	<u>06</u>
09-001	<u>Trip Blank</u>	Water	GRAB	1/18/10	1400	2	rebrand-i-icpus-water rebrand-d-sw-icpus oa2-iowa 8270-104 8260-100	<u>07</u>
10-001	<u>Field Blank</u>	Water	GRAB	1/18/10	1820	7	rebrand-i-icpus-water rebrand-d-sw-icpus oa2-iowa 8270-104 8260-100	<u>08</u>

Relinquished By James Moore 1/21/10 1420
Received By M. Main 1-21-10 2:20

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-1-GW
10A0885-01 (Water)

Date Sampled: 1/19/2010 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon Disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 4 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-1-GW
10A0885-01 (Water)

Date Sampled: 1/19/2010 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		100 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		87.5 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.3 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.9 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Page 5 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-1-GW

10A0885-01 (Water)

Date Sampled: 1/19/2010 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

Surrogate: Terphenyl-d14	60.5 %	60-140	1A02609	01/25/10	01/27/10	EPA 8270C
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Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"
Barium, dissolved	0.139	0.0040	"	"	"	"	"	"
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"

Determination of Total Metals

Silver, total	ND	0.0200	mg/l	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Arsenic, total	ND	0.0200	"	"	"	"	"	"	R-01
Barium, total	0.606	0.0200	"	"	"	"	"	"	
Cadmium, total	ND	0.0050	"	"	"	"	"	"	R-01
Chromium, total	0.0990	0.0500	"	"	"	"	"	"	
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A	
Lead, total	ND	0.0200	"	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Selenium, total	ND	0.0200	"	"	"	"	"	"	R-01

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 6 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-3-GW

10A0885-02 (Water)

Date Sampled: 1/19/2010 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon Disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-3-GW
10A0885-02 (Water)

Date Sampled: 1/19/2010 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		103 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		83.2 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		79.4 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		77.7 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-3-GW

10A0885-02 (Water)

Date Sampled: 1/19/2010 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

Surrogate: Terphenyl-d14	52.4 %	60-140	1A02609	01/25/10	01/27/10	EPA 8270C	S-BN
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Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"	
Barium, dissolved	0.209	0.0040	"	"	"	"	"	"	
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"	
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"	
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A	
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"	

Determination of Total Metals

Silver, total	ND	0.0200	mg/l	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Arsenic, total	ND	0.0200	"	"	"	"	"	"	R-01
Barium, total	0.286	0.0200	"	"	"	"	"	"	
Cadmium, total	ND	0.0050	"	"	"	"	"	"	R-01
Chromium, total	ND	0.0500	"	"	"	"	"	"	R-01
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A	
Lead, total	ND	0.0200	"	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Selenium, total	ND	0.0200	"	"	"	"	"	"	R-01

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-11-GW
10A0885-03 (Water)

Date Sampled: 1/19/2010 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00219	01/31/10	02/01/10	EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"
Benzene	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon Disulfide	ND	1.0	"	"	"	"	"	"
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Trichloroethylene	ND	1.0	"	"	"	"	"	"
Vinyl Chloride	ND	1.0	"	"	"	"	"	"

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-11-GW
10A0885-03 (Water)

Date Sampled: 1/19/2010 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Xylenes, total	ND	2.0	ug/l	1	1B00219	01/31/10	02/01/10	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		103 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		75.4 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.6 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		68.4 %	60-140		"	"	"	"	
Surrogate: Terphenyl-d14		72.9 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-11-GW
10A0885-03 (Water)

Date Sampled: 1/19/2010 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"	
Barium, dissolved	0.0837	0.0040	"	"	"	"	"	"	
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"	
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"	
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A	
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"	

Determination of Total Metals

Silver, total	ND	0.100	mg/l	50	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Arsenic, total	ND	0.100	"	"	"	"	"	"	R-01
Barium, total	1.95	0.100	"	"	"	"	"	"	
Cadmium, total	ND	0.0250	"	"	"	"	"	"	R-01
Chromium, total	0.858	0.250	"	"	"	"	"	"	
Mercury, total	0.00069	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A	
Lead, total	0.436	0.100	"	50	1A02733	01/27/10	02/01/10	EPA 6020A	
Selenium, total	ND	0.100	"	"	"	"	"	"	R-01

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-11-GW

10A0885-03RE2 (Water)

Date Sampled: 1/19/2010 4:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Acetone	ND	10.0	ug/l	1	1B00216	01/31/10	02/02/10	EPA 8260B	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.6 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		112 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		106 %	85-118		"	"	"	"	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-9-GW

10A0885-04 (Water)

Date Sampled: 1/19/2010 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon Disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-9-GW
10A0885-04 (Water)

Date Sampled: 1/19/2010 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		101 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		71.8 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		80.5 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		75.0 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-9-GW

10A0885-04 (Water)

Date Sampled: 1/19/2010 4:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

Surrogate: Terphenyl-d14 66.1 % 60-140 1A02609 01/25/10 01/27/10 EPA 8270C

Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"
Barium, dissolved	0.169	0.0040	"	"	"	"	"	"
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"

Determination of Total Metals

Silver, total	ND	0.0200	mg/l	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Arsenic, total	ND	0.0200	"	"	"	"	"	"	R-01
Barium, total	0.319	0.0200	"	"	"	"	"	"	
Cadmium, total	ND	0.0050	"	"	"	"	"	"	R-01
Chromium, total	ND	0.0500	"	"	"	"	"	"	R-01
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A	
Lead, total	ND	0.0200	"	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Selenium, total	ND	0.0200	"	"	"	"	"	"	R-01

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-7-GW

10A0885-05 (Water)

Date Sampled: 1/20/2010 8:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon Disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-7-GW
10A0885-05 (Water)

Date Sampled: 1/20/2010 8:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		102 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		83.9 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		81.6 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		79.1 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

B-7-GW

10A0885-05 (Water)

Date Sampled: 1/20/2010 8:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

Surrogate: Terphenyl-d14	58.9 %	60-140	1A02609	01/25/10	01/27/10	EPA 8270C	S-BN
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Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"	
Barium, dissolved	0.233	0.0040	"	"	"	"	"	"	
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"	
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"	
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A	
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A	
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"	

Determination of Total Metals

Silver, total	ND	0.0200	mg/l	10	1A02733	01/27/10	02/01/10	EPA 6020A	R-01
Arsenic, total	0.0391	0.0200	"	"	"	"	"	"	
Barium, total	0.835	0.0200	"	"	"	"	"	"	
Cadmium, total	ND	0.0050	"	"	"	"	"	"	R-01
Chromium, total	0.165	0.0500	"	"	"	"	"	"	
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A	
Lead, total	0.0965	0.0200	"	10	1A02733	01/27/10	02/01/10	EPA 6020A	
Selenium, total	ND	0.0200	"	"	"	"	"	"	R-01

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Equipment Blank
10A0885-06 (Water)

Date Sampled: 1/20/2010 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"
Acetone	ND	10.0	"	"	"	"	"	"
Benzene	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon Disulfide	ND	1.0	"	"	"	"	"	"
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Equipment Blank
10A0885-06 (Water)

Date Sampled: 1/20/2010 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		106 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		83.4 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	13	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	13	"	"	"	"	"	"	
Anthracene	ND	13	"	"	"	"	"	"	
Benzo(a)anthracene	ND	13	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	13	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	13	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	13	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	13	"	"	"	"	"	"	
Chrysene	ND	13	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	13	"	"	"	"	"	"	
Fluoranthene	ND	13	"	"	"	"	"	"	
Fluorene	ND	13	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	13	"	"	"	"	"	"	
Naphthalene	ND	13	"	"	"	"	"	"	
Phenanthrene	ND	13	"	"	"	"	"	"	
Pyrene	ND	13	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.1 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		77.2 %	60-140		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Equipment Blank
10A0885-06 (Water)

Date Sampled: 1/20/2010 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

<i>Surrogate: Terphenyl-d14</i>	86.8 %	60-140	1A02609	01/25/10	01/27/10	EPA 8270C
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Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"
Barium, dissolved	0.0055	0.0040	"	"	"	"	"	"
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"

Determination of Total Metals

Silver, total	ND	0.0040	mg/l	2	1A02733	01/27/10	02/01/10	EPA 6020A
Arsenic, total	ND	0.0040	"	"	"	"	"	"
Barium, total	ND	0.0040	"	"	"	"	"	"
Cadmium, total	ND	0.0010	"	"	"	"	"	"
Chromium, total	ND	0.0100	"	"	"	"	"	"
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A
Lead, total	ND	0.0040	"	2	1A02733	01/27/10	02/01/10	EPA 6020A
Selenium, total	ND	0.0040	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Trip Blank
10A0885-07 (Water)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	
Acetone	ND	10.0	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon Disulfide	ND	1.0	"	"	"	"	"	"	
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Methylene Chloride	ND	5.0	"	"	"	"	"	"	
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Trip Blank
10A0885-07 (Water)

Date Sampled: 1/20/2010 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/02/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		111 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		103 %	85-118		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 24 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Field Blank
10A0885-08 (Water)

Date Sampled: 1/18/2010 6:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

1,1,1-Trichloroethane	ND	1.0	ug/l	1	1B00216	02/01/10	02/01/10	EPA 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,1-Dichloroethylene	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"
2-Hexanone (MBK)	ND	5.0	"	"	"	"	"	"
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"
Acetone	ND	10.0	"	"	"	"	"	"
Benzene	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
Carbon Disulfide	ND	1.0	"	"	"	"	"	"
Carbon Tetrachloride	ND	1.0	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"	"
Methylene Chloride	ND	5.0	"	"	"	"	"	"
Methyl-t-butyl Ether (MTBE)	ND	2.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
Tetrachloroethylene	ND	1.0	"	"	"	"	"	"
Toluene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethylene	ND	1.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"

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This analytical report must be reproduced in its entirety.

Page 25 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Field Blank
10A0885-08 (Water)

Date Sampled: 1/18/2010 6:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Volatile Organic Compounds

Trichloroethylene	ND	1.0	ug/l	1	1B00216	02/01/10	02/01/10	EPA 8260B	
Vinyl Chloride	ND	1.0	"	"	"	"	"	"	
Xylenes, total	ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	79-126		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	85-121		"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	70-132		"	"	"	"	
Surrogate: Toluene-d8		102 %	85-118		"	"	"	"	

Determination of Extractable Petroleum Hydrocarbons

TEH, as #2 diesel fuel	ND	0.1	mg/l	1	1A02222	01/22/10	01/26/10	Iowa OA-2	
TEH, as gasoline	ND	0.1	"	"	"	"	"	"	
TEH, as waste oil	ND	0.1	"	"	"	"	"	"	
Total Extractable Hydrocarbons	ND	0.1	"	"	"	"	"	"	
Surrogate: Pentacosane		68.2 %	60-140		"	"	"	"	

Determination of Base/Neutral Extractable Compounds

Acenaphthene	ND	10	ug/l	1	1A02609	01/25/10	01/27/10	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)anthracene	ND	10	"	"	"	"	"	"	
Benzo(a)Pyrene	ND	10	"	"	"	"	"	"	
Benzo(b)Fluoranthene	ND	10	"	"	"	"	"	"	
Benzo(g,h,i)perylene	ND	10	"	"	"	"	"	"	
Benzo(k)Fluoranthene	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenzo(a,h)anthracene	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	10	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	
Indeno(1,2,3-cd)Pyrene	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		84.5 %	60-121		"	"	"	"	
Surrogate: Nitrobenzene-d5		82.0 %	60-140		"	"	"	"	

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This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Field Blank
10A0885-08 (Water)

Date Sampled: 1/18/2010 6:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Base/Neutral Extractable Compounds

Surrogate: Terphenyl-d14 90.7 % 60-140 1A02609 01/25/10 01/27/10 EPA 8270C

Determination of Dissolved Metals

Silver, dissolved	ND	0.0020	mg/l	2	1A02521	01/25/10	01/29/10	EPA 6020A
Arsenic, dissolved	ND	0.0020	"	"	"	"	"	"
Barium, dissolved	ND	0.0040	"	"	"	"	"	"
Cadmium, dissolved	ND	0.0010	"	"	"	"	"	"
Chromium, dissolved	ND	0.0040	"	"	"	"	"	"
Mercury, dissolved	ND	0.00050	"	1	1B00204	02/02/10	02/02/10	EPA 7470A
Lead, dissolved	ND	0.0020	"	2	1A02521	01/25/10	01/29/10	EPA 6020A
Selenium, dissolved	ND	0.0020	"	"	"	"	"	"

Determination of Total Metals

Silver, total	ND	0.0040	mg/l	2	1A02733	01/27/10	02/01/10	EPA 6020A
Arsenic, total	ND	0.0040	"	"	"	"	"	"
Barium, total	ND	0.0040	"	"	"	"	"	"
Cadmium, total	ND	0.0010	"	"	"	"	"	"
Chromium, total	ND	0.0100	"	"	"	"	"	"
Mercury, total	ND	0.00050	"	1	1A02209	01/22/10	01/22/10	EPA 7470A
Lead, total	ND	0.0040	"	2	1A02733	01/27/10	02/01/10	EPA 6020A
Selenium, total	ND	0.0040	"	"	"	"	"	"

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0211 - 1B00219

Calibration Check (10B0211-CCV1)

Prepared: 01/31/10 Analyzed: 02/01/10

Chloromethane	93.35		ug/l	100.400		93.0	80-120			
Vinyl Chloride	95.68		"	100.450		95.3	80-120			
Bromomethane	100.1		"	100.450		99.6	80-120			
Chloroethane	94.61		"	100.450		94.2	80-120			
1,1-Dichloroethylene	47.96		"	50.0000		95.9	80-120			
Acetone	166.2		"	139.300		119	80-120			
Carbon Disulfide	104.8		"	112.000		93.6	80-120			
Methylene Chloride	45.00		"	50.0000		90.0	80-120			
trans-1,2-Dichloroethylene	47.77		"	50.0000		95.5	80-120			
Methyl-t-butyl Ether (MTBE)	101.4		"	113.050		89.7	80-120			
1,1-Dichloroethane	46.79		"	50.0000		93.6	80-120			
cis-1,2-Dichloroethylene	47.78		"	50.0000		95.6	80-120			
2-Butanone (MEK)	143.9		"	171.150		84.1	80-120			
Chloroform	47.17		"	50.0000		94.3	80-120			
1,1,1-Trichloroethane	47.18		"	50.0000		94.4	80-120			
Carbon Tetrachloride	46.99		"	50.0000		94.0	80-120			
Benzene	47.84		"	50.0000		95.7	80-120			
1,2-Dichloroethane	46.38		"	50.0000		92.8	80-120			
Trichloroethylene	46.99		"	50.0000		94.0	80-120			
1,2-Dichloropropane	46.72		"	50.0000		93.4	80-120			
Bromodichloromethane	46.81		"	50.0000		93.6	80-120			
cis-1,3-Dichloropropene	46.85		"	50.0000		93.7	80-120			
4-Methyl-2-pentanone (MIBK)	113.2		"	131.250		86.2	80-120			
Toluene	47.29		"	50.0000		94.6	80-120			
trans-1,3-Dichloropropene	45.47		"	50.0000		90.9	80-120			
1,1,2-Trichloroethane	45.09		"	50.0000		90.2	80-120			
Tetrachloroethylene	47.72		"	50.0000		95.4	80-120			
2-Hexanone (MBK)	97.55		"	115.500		84.5	80-120			
Dibromochloromethane	47.04		"	50.0000		94.1	80-120			
Chlorobenzene	47.58		"	50.0000		95.2	80-120			
Ethylbenzene	48.84		"	50.0000		97.7	80-120			
Xylenes, total	145.5		"	150.000		97.0	80-120			
Bromoform	45.32		"	50.0000		90.6	80-120			
1,1,2,2-Tetrachloroethane	45.19		"	50.0000		90.4	80-120			
1,3-Dichlorobenzene	46.28		"	50.0000		92.6	80-120			
1,4-Dichlorobenzene	45.17		"	50.0000		90.3	80-120			
1,2-Dichlorobenzene	47.30		"	50.0000		94.6	80-120			
Naphthalene	45.93		"	50.0000		91.9	80-120			
Surrogate: Dibromofluoromethane	49.8		"	50.0000		99.7	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.0000		96.2	80-120			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

Page 28 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0211 - 1B00219

Calibration Check (10B0211-CCV1)

Prepared: 01/31/10 Analyzed: 02/01/10

Surrogate: Toluene-d8	50.3		ug/l	50.0000		101	80-120			
Surrogate: 4-Bromofluorobenzene	50.0		"	50.0000		99.9	80-120			

Batch 10B0214 - 1B00216

Calibration Check (10B0214-CCV1)

Prepared & Analyzed: 02/01/10

Chloromethane	94.06		ug/l	100.400		93.7	80-120			
Vinyl Chloride	90.84		"	100.450		90.4	80-120			
Bromomethane	94.12		"	100.450		93.7	80-120			
Chloroethane	86.19		"	100.450		85.8	80-120			
1,1-Dichloroethylene	53.53		"	50.0000		107	80-120			
Acetone	128.9		"	139.300		92.5	80-120			
Carbon Disulfide	111.8		"	112.000		99.9	80-120			
Methylene Chloride	50.80		"	50.0000		102	80-120			
trans-1,2-Dichloroethylene	51.59		"	50.0000		103	80-120			
Methyl-t-butyl Ether (MTBE)	104.9		"	113.050		92.8	80-120			
1,1-Dichloroethane	49.67		"	50.0000		99.3	80-120			
cis-1,2-Dichloroethylene	50.19		"	50.0000		100	80-120			
2-Butanone (MEK)	150.6		"	171.150		88.0	80-120			
Chloroform	50.55		"	50.0000		101	80-120			
1,1,1-Trichloroethane	52.36		"	50.0000		105	80-120			
Carbon Tetrachloride	52.73		"	50.0000		105	80-120			
Benzene	54.91		"	50.0000		110	80-120			
1,2-Dichloroethane	54.52		"	50.0000		109	80-120			
Trichloroethylene	54.21		"	50.0000		108	80-120			
1,2-Dichloropropane	49.85		"	50.0000		99.7	80-120			
Bromodichloromethane	54.71		"	50.0000		109	80-120			
cis-1,3-Dichloropropene	53.94		"	50.0000		108	80-120			
4-Methyl-2-pentanone (MIBK)	124.2		"	131.250		94.6	80-120			
Toluene	55.08		"	50.0000		110	80-120			
trans-1,3-Dichloropropene	55.15		"	50.0000		110	80-120			
1,1,2-Trichloroethane	54.19		"	50.0000		108	80-120			
Tetrachloroethylene	55.92		"	50.0000		112	80-120			
2-Hexanone (MBK)	92.48		"	115.500		80.1	80-120			
Dibromochloromethane	54.33		"	50.0000		109	80-120			
Chlorobenzene	54.37		"	50.0000		109	80-120			
Ethylbenzene	58.90		"	50.0000		118	80-120			
Xylenes, total	155.7		"	150.000		104	80-120			
Bromoform	54.91		"	50.0000		110	80-120			
1,1,2,2-Tetrachloroethane	52.35		"	50.0000		105	80-120			
1,3-Dichlorobenzene	54.33		"	50.0000		109	80-120			

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This analytical report must be reproduced in its entirety.

Page 29 of 68

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0214 - 1B00216

Calibration Check (10B0214-CCV1)

Prepared & Analyzed: 02/01/10

1,4-Dichlorobenzene	49.71		ug/l	50.0000		99.4	80-120			
1,2-Dichlorobenzene	53.70		"	50.0000		107	80-120			
Naphthalene	50.18		"	50.0000		100	80-120			
Surrogate: Dibromofluoromethane	48.6		"	50.0000		97.2	80-120			
Surrogate: 1,2-Dichloroethane-d4	48.7		"	50.0000		97.3	80-120			
Surrogate: Toluene-d8	51.3		"	50.0000		103	80-120			
Surrogate: 4-Bromofluorobenzene	49.7		"	50.0000		99.4	80-120			

Calibration Check (10B0214-CCV2)

Prepared: 02/01/10 Analyzed: 02/02/10

Chloromethane	86.09		ug/l	100.400		85.7	80-120			
Vinyl Chloride	91.45		"	100.450		91.0	80-120			
Bromomethane	91.24		"	100.450		90.8	80-120			
Chloroethane	85.78		"	100.450		85.4	80-120			
1,1-Dichloroethylene	54.29		"	50.0000		109	80-120			
Acetone	134.0		"	139.300		96.2	80-120			
Carbon Disulfide	111.1		"	112.000		99.2	80-120			
Methylene Chloride	54.26		"	50.0000		109	80-120			
trans-1,2-Dichloroethylene	55.20		"	50.0000		110	80-120			
Methyl-t-butyl Ether (MTBE)	110.7		"	113.050		97.9	80-120			
1,1-Dichloroethane	55.91		"	50.0000		112	80-120			
cis-1,2-Dichloroethylene	54.87		"	50.0000		110	80-120			
2-Butanone (MEK)	154.7		"	171.150		90.4	80-120			
Chloroform	54.39		"	50.0000		109	80-120			
1,1,1-Trichloroethane	55.09		"	50.0000		110	80-120			
Carbon Tetrachloride	53.62		"	50.0000		107	80-120			
Benzene	55.19		"	50.0000		110	80-120			
1,2-Dichloroethane	53.22		"	50.0000		106	80-120			
Trichloroethylene	55.11		"	50.0000		110	80-120			
1,2-Dichloropropane	50.99		"	50.0000		102	80-120			
Bromodichloromethane	54.16		"	50.0000		108	80-120			
cis-1,3-Dichloropropene	55.28		"	50.0000		111	80-120			
4-Methyl-2-pentanone (MIBK)	122.0		"	131.250		93.0	80-120			
Toluene	56.01		"	50.0000		112	80-120			
trans-1,3-Dichloropropene	54.99		"	50.0000		110	80-120			
1,1,2-Trichloroethane	54.39		"	50.0000		109	80-120			
Tetrachloroethylene	57.11		"	50.0000		114	80-120			
2-Hexanone (MBK)	93.50		"	115.500		81.0	80-120			
Dibromochloromethane	56.54		"	50.0000		113	80-120			
Chlorobenzene	57.35		"	50.0000		115	80-120			
Ethylbenzene	57.44		"	50.0000		115	80-120			
Xylenes, total	163.0		"	150.000		109	80-120			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0214 - 1B00216

Calibration Check (10B0214-CCV2)

Prepared: 02/01/10 Analyzed: 02/02/10

Bromoform	56.35		ug/l	50.0000		113	80-120			
1,1,2,2-Tetrachloroethane	55.84		"	50.0000		112	80-120			
1,3-Dichlorobenzene	55.79		"	50.0000		112	80-120			
1,4-Dichlorobenzene	53.24		"	50.0000		106	80-120			
1,2-Dichlorobenzene	54.48		"	50.0000		109	80-120			
Naphthalene	52.42		"	50.0000		105	80-120			
Surrogate: Dibromofluoromethane	48.8		"	50.0000		97.5	80-120			
Surrogate: 1,2-Dichloroethane-d4	51.0		"	50.0000		102	80-120			
Surrogate: Toluene-d8	50.0		"	50.0000		100	80-120			
Surrogate: 4-Bromofluorobenzene	49.5		"	50.0000		99.0	80-120			

Batch 1B00216 - EPA 5030B

Blank (1B00216-BLK1)

Prepared: 02/01/10 Analyzed: 02/02/10

Chloromethane	ND	1.0	ug/l
Vinyl Chloride	ND	1.0	"
Bromomethane	ND	1.0	"
Chloroethane	ND	1.0	"
1,1-Dichloroethylene	ND	1.0	"
Acetone	ND	10.0	"
Carbon Disulfide	ND	1.0	"
Methylene Chloride	ND	5.0	"
trans-1,2-Dichloroethylene	ND	1.0	"
Methyl-t-butyl Ether (MTBE)	ND	2.0	"
1,1-Dichloroethane	ND	1.0	"
cis-1,2-Dichloroethylene	ND	1.0	"
2-Butanone (MEK)	ND	5.0	"
Chloroform	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Carbon Tetrachloride	ND	1.0	"
Benzene	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
Trichloroethylene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
cis-1,3-Dichloropropene	ND	1.0	"
4-Methyl-2-pentanone (MIBK)	ND	5.0	"
Toluene	ND	1.0	"
trans-1,3-Dichloropropene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
Tetrachloroethylene	ND	1.0	"

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00216 - EPA 5030B

Blank (1B00216-BLK1)

Prepared: 02/01/10 Analyzed: 02/02/10

2-Hexanone (MBK)	ND	5.0	ug/l							
Dibromochloromethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Bromoform	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
Naphthalene	ND	1.0	"							
Surrogate: Dibromofluoromethane	53.8		"	50.0000		108	70-132			
Surrogate: 1,2-Dichloroethane-d4	49.7		"	50.0000		99.4	79-126			
Surrogate: Toluene-d8	51.6		"	50.0000		103	85-118			
Surrogate: 4-Bromofluorobenzene	48.4		"	50.0000		96.8	85-121			

LCS (1B00216-BS1)

Prepared: 02/01/10 Analyzed: 02/02/10

Chloromethane	92.54	1.0	ug/l	100.400		92.2	62-140			
Vinyl Chloride	93.25	1.0	"	100.450		92.8	69-140			
Bromomethane	99.65	1.0	"	100.450		99.2	60-140			
Chloroethane	86.82	1.0	"	100.450		86.4	70-140			
1,1-Dichloroethylene	51.91	1.0	"	50.0000		104	82-136			
Acetone	76.65	10.0	"	82.2500		93.2	60-140			
Carbon Disulfide	93.98	1.0	"	91.0000		103	74-132			
Methylene Chloride	44.62	5.0	"	50.0000		89.2	69-131			
trans-1,2-Dichloroethylene	48.50	1.0	"	50.0000		97.0	82-130			
Methyl-t-butyl Ether (MTBE)	81.36	2.0	"	93.1000		87.4	78-127			
1,1-Dichloroethane	45.94	1.0	"	50.0000		91.9	79-128			
cis-1,2-Dichloroethylene	46.11	1.0	"	50.0000		92.2	82-123			
2-Butanone (MEK)	92.01	5.0	"	122.500		75.1	60-140			
Chloroform	45.63	1.0	"	50.0000		91.3	76-124			
1,1,1-Trichloroethane	48.31	1.0	"	50.0000		96.6	78-129			
Carbon Tetrachloride	48.26	1.0	"	50.0000		96.5	85-131			
Benzene	47.89	1.0	"	50.0000		95.8	80-133			
1,2-Dichloroethane	45.80	1.0	"	50.0000		91.6	79-130			
Trichloroethylene	48.12	1.0	"	50.0000		96.2	81-130			
1,2-Dichloropropane	43.48	1.0	"	50.0000		87.0	81-125			
Bromodichloromethane	48.23	1.0	"	50.0000		96.5	81-123			
cis-1,3-Dichloropropene	47.55	1.0	"	50.0000		95.1	85-121			
4-Methyl-2-pentanone (MIBK)	104.4	5.0	"	130.900		79.8	69-118			
Toluene	47.76	1.0	"	50.0000		95.5	88-131			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00216 - EPA 5030B

LCS (1B00216-BS1)

Prepared: 02/01/10 Analyzed: 02/02/10

trans-1,3-Dichloropropene	45.68	1.0	ug/l	50.0000		91.4	81-119			
1,1,2-Trichloroethane	46.92	1.0	"	50.0000		93.8	72-122			
Tetrachloroethylene	49.25	1.0	"	50.0000		98.5	75-130			
2-Hexanone (MBK)	63.83	5.0	"	102.900		62.0	60-140			
Dibromochloromethane	46.25	1.0	"	50.0000		92.5	76-123			
Chlorobenzene	47.99	1.0	"	50.0000		96.0	79-124			
Ethylbenzene	49.44	1.0	"	50.0000		98.9	84-139			
Xylenes, total	133.3	2.0	"	150.000		88.9	84-138			
Bromoform	45.94	1.0	"	50.0000		91.9	65-129			
1,1,2,2-Tetrachloroethane	45.94	1.0	"	50.0000		91.9	70-125			
1,3-Dichlorobenzene	46.29	1.0	"	50.0000		92.6	78-123			
1,4-Dichlorobenzene	44.10	1.0	"	50.0000		88.2	80-121			
1,2-Dichlorobenzene	45.83	1.0	"	50.0000		91.7	80-122			
Naphthalene	42.92	1.0	"	50.0000		85.8	60-140			
Surrogate: Dibromofluoromethane	50.2		"	50.0000		100	70-132			
Surrogate: 1,2-Dichloroethane-d4	51.3		"	50.0000		103	79-126			
Surrogate: Toluene-d8	50.9		"	50.0000		102	85-118			
Surrogate: 4-Bromofluorobenzene	48.8		"	50.0000		97.7	85-121			

Matrix Spike (1B00216-MS1)

Source: 10A0885-03RE1

Prepared: 02/01/10 Analyzed: 02/02/10

Chloromethane	85.14	1.0	ug/l	100.400	ND	84.8	65-134			
Vinyl Chloride	92.05	1.0	"	100.450	ND	91.6	71-140			
Bromomethane	98.22	1.0	"	100.450	ND	97.8	60-140			
Chloroethane	86.44	1.0	"	100.450	ND	86.1	78-130			
1,1-Dichloroethylene	52.13	1.0	"	50.0000	ND	104	82-133			
Acetone	79.67	10.0	"	82.2500	ND	96.9	60-140			
Carbon Disulfide	94.14	1.0	"	91.0000	ND	103	79-124			
Methylene Chloride	46.37	5.0	"	50.0000	ND	92.7	69-132			
trans-1,2-Dichloroethylene	49.80	1.0	"	50.0000	ND	99.6	81-129			
Methyl-t-butyl Ether (MTBE)	85.67	2.0	"	93.1000	ND	92.0	70-133			
1,1-Dichloroethane	46.86	1.0	"	50.0000	ND	93.7	80-123			
cis-1,2-Dichloroethylene	46.78	1.0	"	50.0000	ND	93.6	77-124			
2-Butanone (MEK)	96.77	5.0	"	122.500	ND	79.0	60-140			
Chloroform	47.00	1.0	"	50.0000	ND	94.0	74-120			
1,1,1-Trichloroethane	48.64	1.0	"	50.0000	ND	97.3	70-129			
Carbon Tetrachloride	49.14	1.0	"	50.0000	ND	98.3	81-130			
Benzene	48.86	1.0	"	50.0000	ND	97.7	77-135			
1,2-Dichloroethane	48.34	1.0	"	50.0000	ND	96.7	73-135			
Trichloroethylene	51.42	1.0	"	50.0000	ND	103	79-125			
1,2-Dichloropropane	45.73	1.0	"	50.0000	ND	91.5	82-121			
Bromodichloromethane	50.06	1.0	"	50.0000	ND	100	80-119			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00216 - EPA 5030B

Matrix Spike (1B00216-MS1)

Source: 10A0885-03RE1

Prepared: 02/01/10

Analyzed: 02/02/10

cis-1,3-Dichloropropene	48.99	1.0	ug/l	50.0000	ND	98.0	82-120			
4-Methyl-2-pentanone (MIBK)	116.2	5.0	"	130.900	ND	88.8	60-128			
Toluene	49.95	1.0	"	50.0000	ND	99.9	85-132			
trans-1,3-Dichloropropene	46.62	1.0	"	50.0000	ND	93.2	75-117			
1,1,2-Trichloroethane	48.14	1.0	"	50.0000	ND	96.3	72-115			
Tetrachloroethylene	49.96	1.0	"	50.0000	ND	99.9	72-128			
2-Hexanone (MBK)	62.63	5.0	"	102.900	ND	60.9	60-140			
Dibromochloromethane	46.11	1.0	"	50.0000	ND	92.2	75-119			
Chlorobenzene	46.69	1.0	"	50.0000	ND	93.4	80-119			
Ethylbenzene	50.46	1.0	"	50.0000	ND	101	78-140			
Xylenes, total	136.8	2.0	"	150.000	ND	91.2	78-140			
Bromoform	46.59	1.0	"	50.0000	ND	93.2	63-125			
1,1,2,2-Tetrachloroethane	48.68	1.0	"	50.0000	ND	97.4	73-119			
1,3-Dichlorobenzene	46.78	1.0	"	50.0000	ND	93.6	78-120			
1,4-Dichlorobenzene	45.57	1.0	"	50.0000	ND	91.1	75-120			
1,2-Dichlorobenzene	45.19	1.0	"	50.0000	ND	90.4	76-119			
Naphthalene	46.20	1.0	"	50.0000	ND	92.4	60-140			
Surrogate: Dibromofluoromethane	49.3		"	50.0000		98.7	70-132			
Surrogate: 1,2-Dichloroethane-d4	51.1		"	50.0000		102	79-126			
Surrogate: Toluene-d8	51.0		"	50.0000		102	85-118			
Surrogate: 4-Bromofluorobenzene	48.2		"	50.0000		96.4	85-121			

Matrix Spike Dup (1B00216-MSD1)

Source: 10A0885-03RE1

Prepared: 02/01/10

Analyzed: 02/02/10

Chloromethane	81.73	1.0	ug/l	100.400	ND	81.4	65-134	4.09	16	
Vinyl Chloride	86.26	1.0	"	100.450	ND	85.9	71-140	6.49	15	
Bromomethane	96.85	1.0	"	100.450	ND	96.4	60-140	1.40	17	
Chloroethane	79.98	1.0	"	100.450	ND	79.6	78-130	7.76	14	
1,1-Dichloroethylene	48.79	1.0	"	50.0000	ND	97.6	82-133	6.62	15	
Acetone	77.84	10.0	"	82.2500	ND	94.6	60-140	2.32	20	
Carbon Disulfide	90.26	1.0	"	91.0000	ND	99.2	79-124	4.21	15	
Methylene Chloride	43.79	5.0	"	50.0000	ND	87.6	69-132	5.72	15	
trans-1,2-Dichloroethylene	47.08	1.0	"	50.0000	ND	94.2	81-129	5.62	16	
Methyl-t-butyl Ether (MTBE)	81.44	2.0	"	93.1000	ND	87.5	70-133	5.06	11	
1,1-Dichloroethane	45.36	1.0	"	50.0000	ND	90.7	80-123	3.25	15	
cis-1,2-Dichloroethylene	44.73	1.0	"	50.0000	ND	89.5	77-124	4.48	15	
2-Butanone (MEK)	90.03	5.0	"	122.500	ND	73.5	60-140	7.22	19	
Chloroform	44.53	1.0	"	50.0000	ND	89.1	74-120	5.40	15	
1,1,1-Trichloroethane	45.69	1.0	"	50.0000	ND	91.4	70-129	6.25	15	
Carbon Tetrachloride	45.21	1.0	"	50.0000	ND	90.4	81-130	8.33	16	
Benzene	46.47	1.0	"	50.0000	ND	92.9	77-135	5.01	14	
1,2-Dichloroethane	44.35	1.0	"	50.0000	ND	88.7	73-135	8.61	12	

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This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00216 - EPA 5030B

Matrix Spike Dup (1B00216-MSD1)

Source: 10A0885-03RE1

Prepared: 02/01/10

Analyzed: 02/02/10

Trichloroethylene	46.54	1.0	ug/l	50.0000	ND	93.1	79-125	9.96	16	
1,2-Dichloropropane	42.06	1.0	"	50.0000	ND	84.1	82-121	8.36	15	
Bromodichloromethane	45.59	1.0	"	50.0000	ND	91.2	80-119	9.35	15	
cis-1,3-Dichloropropene	45.10	1.0	"	50.0000	ND	90.2	82-120	8.27	15	
4-Methyl-2-pentanone (MIBK)	103.8	5.0	"	130.900	ND	79.3	60-128	11.3	18	
Toluene	45.45	1.0	"	50.0000	ND	90.9	85-132	9.43	12	
trans-1,3-Dichloropropene	42.31	1.0	"	50.0000	ND	84.6	75-117	9.69	15	
1,1,2-Trichloroethane	43.08	1.0	"	50.0000	ND	86.2	72-115	11.1	14	
Tetrachloroethylene	47.37	1.0	"	50.0000	ND	94.7	72-128	5.32	14	
2-Hexanone (MBK)	77.29	5.0	"	102.900	ND	75.1	60-140	21.0	29	
Dibromochloromethane	43.60	1.0	"	50.0000	ND	87.2	75-119	5.60	14	
Chlorobenzene	45.41	1.0	"	50.0000	ND	90.8	80-119	2.78	13	
Ethylbenzene	47.46	1.0	"	50.0000	ND	94.9	78-140	6.13	11	
Xylenes, total	127.7	2.0	"	150.000	ND	85.2	78-140	6.84	11	
Bromoform	42.06	1.0	"	50.0000	ND	84.1	63-125	10.2	17	
1,1,2,2-Tetrachloroethane	43.15	1.0	"	50.0000	ND	86.3	73-119	12.0	15	
1,3-Dichlorobenzene	45.07	1.0	"	50.0000	ND	90.1	78-120	3.72	16	
1,4-Dichlorobenzene	40.77	1.0	"	50.0000	ND	81.5	75-120	11.1	16	
1,2-Dichlorobenzene	42.81	1.0	"	50.0000	ND	85.6	76-119	5.41	16	
Naphthalene	42.34	1.0	"	50.0000	ND	84.7	60-140	8.72	13	
Surrogate: Dibromofluoromethane	49.9		"	50.0000		99.7	70-132			
Surrogate: 1,2-Dichloroethane-d4	52.7		"	50.0000		105	79-126			
Surrogate: Toluene-d8	49.2		"	50.0000		98.4	85-118			
Surrogate: 4-Bromofluorobenzene	56.3		"	50.0000		113	85-121			

Batch 1B00219 - EPA 5030B

Blank (1B00219-BLK1)

Prepared: 01/31/10 Analyzed: 02/01/10

Chloromethane	ND	1.0	ug/l							
Vinyl Chloride	ND	1.0	"							
Bromomethane	ND	1.0	"							
Chloroethane	ND	1.0	"							
1,1-Dichloroethylene	ND	1.0	"							
Acetone	166.7	10.0	"							QB-04
Carbon Disulfide	ND	1.0	"							
Methylene Chloride	ND	5.0	"							
trans-1,2-Dichloroethylene	ND	1.0	"							
Methyl-t-butyl Ether (MTBE)	ND	2.0	"							
1,1-Dichloroethane	ND	1.0	"							
cis-1,2-Dichloroethylene	ND	1.0	"							
2-Butanone (MEK)	ND	5.0	"							

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00219 - EPA 5030B

Blank (1B00219-BLK1)

Prepared: 01/31/10 Analyzed: 02/01/10

Chloroform	ND	1.0	ug/l							
1,1,1-Trichloroethane	ND	1.0	"							
Carbon Tetrachloride	ND	1.0	"							
Benzene	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Trichloroethylene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
4-Methyl-2-pentanone (MIBK)	ND	5.0	"							
Toluene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Tetrachloroethylene	ND	1.0	"							
2-Hexanone (MBK)	ND	5.0	"							
Dibromochloromethane	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	2.0	"							
Bromoform	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
Naphthalene	ND	1.0	"							
Surrogate: Dibromofluoromethane	53.0		"	50.0000		106	70-132			
Surrogate: 1,2-Dichloroethane-d4	48.5		"	50.0000		97.0	79-126			
Surrogate: Toluene-d8	52.1		"	50.0000		104	85-118			
Surrogate: 4-Bromofluorobenzene	50.6		"	50.0000		101	85-121			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00219 - EPA 5030B

LCS (1B00219-BS1)

Prepared: 01/31/10 Analyzed: 02/01/10

Chloromethane	102.8	1.0	ug/l	100.400		102	62-140			
Vinyl Chloride	105.9	1.0	"	100.450		105	69-140			
Bromomethane	112.8	1.0	"	100.450		112	60-140			
Chloroethane	105.0	1.0	"	100.450		105	70-140			
1,1-Dichloroethylene	51.13	1.0	"	50.0000		102	82-136			
Acetone	163.0	10.0	"	82.2500		198	60-140			QS-05
Carbon Disulfide	98.85	1.0	"	91.0000		109	74-132			
Methylene Chloride	46.73	5.0	"	50.0000		93.5	69-131			
trans-1,2-Dichloroethylene	50.14	1.0	"	50.0000		100	82-130			
Methyl-t-butyl Ether (MTBE)	96.94	2.0	"	93.1000		104	78-127			
1,1-Dichloroethane	48.93	1.0	"	50.0000		97.9	79-128			
cis-1,2-Dichloroethylene	50.16	1.0	"	50.0000		100	82-123			
2-Butanone (MEK)	123.3	5.0	"	122.500		101	60-140			
Chloroform	48.98	1.0	"	50.0000		98.0	76-124			
1,1,1-Trichloroethane	49.33	1.0	"	50.0000		98.7	78-129			
Carbon Tetrachloride	49.02	1.0	"	50.0000		98.0	85-131			
Benzene	49.52	1.0	"	50.0000		99.0	80-133			
1,2-Dichloroethane	50.39	1.0	"	50.0000		101	79-130			
Trichloroethylene	49.77	1.0	"	50.0000		99.5	81-130			
1,2-Dichloropropane	49.97	1.0	"	50.0000		99.9	81-125			
Bromodichloromethane	51.66	1.0	"	50.0000		103	81-123			
cis-1,3-Dichloropropene	50.66	1.0	"	50.0000		101	85-121			
4-Methyl-2-pentanone (MIBK)	137.1	5.0	"	130.900		105	69-118			
Toluene	49.92	1.0	"	50.0000		99.8	88-131			
trans-1,3-Dichloropropene	49.31	1.0	"	50.0000		98.6	81-119			
1,1,2-Trichloroethane	48.09	1.0	"	50.0000		96.2	72-122			
Tetrachloroethylene	49.66	1.0	"	50.0000		99.3	75-130			
2-Hexanone (MBK)	101.8	5.0	"	102.900		99.0	60-140			
Dibromochloromethane	49.45	1.0	"	50.0000		98.9	76-123			
Chlorobenzene	50.31	1.0	"	50.0000		101	79-124			
Ethylbenzene	50.64	1.0	"	50.0000		101	84-139			
Xylenes, total	150.5	2.0	"	150.000		100	84-138			
Bromoform	48.77	1.0	"	50.0000		97.5	65-129			
1,1,2,2-Tetrachloroethane	48.65	1.0	"	50.0000		97.3	70-125			
1,3-Dichlorobenzene	46.69	1.0	"	50.0000		93.4	78-123			
1,4-Dichlorobenzene	46.90	1.0	"	50.0000		93.8	80-121			
1,2-Dichlorobenzene	48.67	1.0	"	50.0000		97.3	80-122			
Naphthalene	49.88	1.0	"	50.0000		99.8	60-140			
Surrogate: Dibromofluoromethane	49.7		"	50.0000		99.5	70-132			
Surrogate: 1,2-Dichloroethane-d4	47.6		"	50.0000		95.1	79-126			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00219 - EPA 5030B

LCS (1B00219-BS1)

Prepared: 01/31/10 Analyzed: 02/01/10

Surrogate: Toluene-d8	50.1		ug/l	50.0000		100	85-118			
Surrogate: 4-Bromofluorobenzene	49.2		"	50.0000		98.4	85-121			

Matrix Spike (1B00219-MS1)

Source: 10A0885-03

Prepared: 01/31/10 Analyzed: 02/01/10

Chloromethane	91.53	1.0	ug/l	100.400	ND	91.2	65-134			
Vinyl Chloride	94.07	1.0	"	100.450	ND	93.6	71-140			
Bromomethane	99.31	1.0	"	100.450	ND	98.9	60-140			
Chloroethane	94.56	1.0	"	100.450	ND	94.1	78-130			
1,1-Dichloroethylene	45.91	1.0	"	50.0000	ND	91.8	82-133			
Acetone	206.2	10.0	"	82.2500	ND	251	60-140			QS-05
Carbon Disulfide	87.47	1.0	"	91.0000	ND	96.1	79-124			
Methylene Chloride	40.77	5.0	"	50.0000	5.75	70.0	69-132			
trans-1,2-Dichloroethylene	45.58	1.0	"	50.0000	ND	91.2	81-129			
Methyl-t-butyl Ether (MTBE)	90.55	2.0	"	93.1000	ND	97.3	70-133			
1,1-Dichloroethane	44.33	1.0	"	50.0000	ND	88.7	80-123			
cis-1,2-Dichloroethylene	45.16	1.0	"	50.0000	ND	90.3	77-124			
2-Butanone (MEK)	113.1	5.0	"	122.500	ND	92.3	60-140			
Chloroform	44.13	1.0	"	50.0000	ND	88.3	74-120			
1,1,1-Trichloroethane	43.47	1.0	"	50.0000	ND	86.9	70-129			
Carbon Tetrachloride	43.84	1.0	"	50.0000	ND	87.7	81-130			
Benzene	44.27	1.0	"	50.0000	ND	88.5	77-135			
1,2-Dichloroethane	46.07	1.0	"	50.0000	ND	92.1	73-135			
Trichloroethylene	43.81	1.0	"	50.0000	ND	87.6	79-125			
1,2-Dichloropropane	45.60	1.0	"	50.0000	ND	91.2	82-121			
Bromodichloromethane	46.87	1.0	"	50.0000	ND	93.7	80-119			
cis-1,3-Dichloropropene	46.33	1.0	"	50.0000	ND	92.7	82-120			
4-Methyl-2-pentanone (MIBK)	130.1	5.0	"	130.900	ND	99.4	60-128			
Toluene	44.05	1.0	"	50.0000	0.39	87.3	85-132			
trans-1,3-Dichloropropene	45.31	1.0	"	50.0000	ND	90.6	75-117			
1,1,2-Trichloroethane	45.39	1.0	"	50.0000	ND	90.8	72-115			
Tetrachloroethylene	42.62	1.0	"	50.0000	ND	85.2	72-128			
2-Hexanone (MBK)	98.17	5.0	"	102.900	ND	95.4	60-140			
Dibromochloromethane	44.51	1.0	"	50.0000	ND	89.0	75-119			
Chlorobenzene	44.36	1.0	"	50.0000	ND	88.7	80-119			
Ethylbenzene	44.38	1.0	"	50.0000	ND	88.8	78-140			
Xylenes, total	133.5	2.0	"	150.000	ND	89.0	78-140			
Bromoform	44.62	1.0	"	50.0000	ND	89.2	63-125			
1,1,2,2-Tetrachloroethane	45.38	1.0	"	50.0000	ND	90.8	73-119			
1,3-Dichlorobenzene	43.05	1.0	"	50.0000	ND	86.1	78-120			
1,4-Dichlorobenzene	42.44	1.0	"	50.0000	ND	84.9	75-120			
1,2-Dichlorobenzene	44.19	1.0	"	50.0000	ND	88.4	76-119			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00219 - EPA 5030B

Matrix Spike (1B00219-MS1)

Source: 10A0885-03

Prepared: 01/31/10 Analyzed: 02/01/10

Naphthalene	46.73	1.0	ug/l	50.0000	ND	93.5	60-140			
Surrogate: Dibromofluoromethane	52.0		"	50.0000		104	70-132			
Surrogate: 1,2-Dichloroethane-d4	51.6		"	50.0000		103	79-126			
Surrogate: Toluene-d8	50.2		"	50.0000		100	85-118			
Surrogate: 4-Bromofluorobenzene	50.5		"	50.0000		101	85-121			

Matrix Spike Dup (1B00219-MSD1)

Source: 10A0885-03

Prepared: 01/31/10 Analyzed: 02/01/10

Chloromethane	88.73	1.0	ug/l	100.400	ND	88.4	65-134	3.11	16	
Vinyl Chloride	92.44	1.0	"	100.450	ND	92.0	71-140	1.75	15	
Bromomethane	99.04	1.0	"	100.450	ND	98.6	60-140	0.272	17	
Chloroethane	92.72	1.0	"	100.450	ND	92.3	78-130	1.96	14	
1,1-Dichloroethylene	44.94	1.0	"	50.0000	ND	89.9	82-133	2.14	15	
Acetone	201.9	10.0	"	82.2500	ND	246	60-140	2.07	20	QS-05
Carbon Disulfide	85.56	1.0	"	91.0000	ND	94.0	79-124	2.21	15	
Methylene Chloride	40.23	5.0	"	50.0000	5.75	69.0	69-132	1.33	15	
trans-1,2-Dichloroethylene	44.39	1.0	"	50.0000	ND	88.8	81-129	2.65	16	
Methyl-t-butyl Ether (MTBE)	89.31	2.0	"	93.1000	ND	95.9	70-133	1.38	11	
1,1-Dichloroethane	43.31	1.0	"	50.0000	ND	86.6	80-123	2.33	15	
cis-1,2-Dichloroethylene	43.96	1.0	"	50.0000	ND	87.9	77-124	2.69	15	
2-Butanone (MEK)	112.4	5.0	"	122.500	ND	91.7	60-140	0.639	19	
Chloroform	43.67	1.0	"	50.0000	ND	87.3	74-120	1.05	15	
1,1,1-Trichloroethane	42.87	1.0	"	50.0000	ND	85.7	70-129	1.39	15	
Carbon Tetrachloride	43.13	1.0	"	50.0000	ND	86.3	81-130	1.63	16	
Benzene	43.33	1.0	"	50.0000	ND	86.7	77-135	2.15	14	
1,2-Dichloroethane	44.22	1.0	"	50.0000	ND	88.4	73-135	4.10	12	
Trichloroethylene	41.94	1.0	"	50.0000	ND	83.9	79-125	4.36	16	
1,2-Dichloropropane	44.76	1.0	"	50.0000	ND	89.5	82-121	1.86	15	
Bromodichloromethane	46.00	1.0	"	50.0000	ND	92.0	80-119	1.87	15	
cis-1,3-Dichloropropene	44.36	1.0	"	50.0000	ND	88.7	82-120	4.34	15	
4-Methyl-2-pentanone (MIBK)	125.7	5.0	"	130.900	ND	96.0	60-128	3.42	18	
Toluene	42.93	1.0	"	50.0000	0.39	85.1	85-132	2.58	12	
trans-1,3-Dichloropropene	44.58	1.0	"	50.0000	ND	89.2	75-117	1.62	15	
1,1,2-Trichloroethane	43.84	1.0	"	50.0000	ND	87.7	72-115	3.47	14	
Tetrachloroethylene	42.11	1.0	"	50.0000	ND	84.2	72-128	1.20	14	
2-Hexanone (MBK)	96.18	5.0	"	102.900	ND	93.5	60-140	2.05	29	
Dibromochloromethane	43.97	1.0	"	50.0000	ND	87.9	75-119	1.22	14	
Chlorobenzene	43.07	1.0	"	50.0000	ND	86.1	80-119	2.95	13	
Ethylbenzene	43.52	1.0	"	50.0000	ND	87.0	78-140	1.96	11	
Xylenes, total	131.5	2.0	"	150.000	ND	87.7	78-140	1.49	11	
Bromoform	43.79	1.0	"	50.0000	ND	87.6	63-125	1.88	17	
1,1,2,2-Tetrachloroethane	45.56	1.0	"	50.0000	ND	91.1	73-119	0.396	15	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Volatile Organic Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1B00219 - EPA 5030B

Matrix Spike Dup (1B00219-MSD1)

Source: 10A0885-03

Prepared: 01/31/10 Analyzed: 02/01/10

1,3-Dichlorobenzene	41.89	1.0	ug/l	50.0000	ND	83.8	78-120	2.73	16	
1,4-Dichlorobenzene	40.94	1.0	"	50.0000	ND	81.9	75-120	3.60	16	
1,2-Dichlorobenzene	43.53	1.0	"	50.0000	ND	87.1	76-119	1.50	16	
Naphthalene	46.04	1.0	"	50.0000	ND	92.1	60-140	1.49	13	
Surrogate: Dibromofluoromethane	51.8		"	50.0000		104	70-132			
Surrogate: 1,2-Dichloroethane-d4	50.7		"	50.0000		101	79-126			
Surrogate: Toluene-d8	50.4		"	50.0000		101	85-118			
Surrogate: 4-Bromofluorobenzene	50.8		"	50.0000		102	85-121			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Extractable Petroleum Hydrocarbons - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2706 - 1A02223

Calibration Check (10A2706-CCV1)

Prepared & Analyzed: 01/26/10

TEH, as gasoline	2144		mg/l	2030.80		106	85-115			
TEH, as #2 diesel fuel	2282		"	2018.80		113	85-115			
TEH, as waste oil	1979		"	2053.20		96.4	85-115			
Surrogate: Pentacosane	55.7		"	50.4400		110	85-115			

Batch 1A02222 - 3510C OA-2 Sep Fnl

Blank (1A02222-BLK1)

Prepared: 01/22/10 Analyzed: 01/26/10

TEH, as gasoline	ND	0.1	mg/l							
TEH, as #2 diesel fuel	ND	0.1	"							
TEH, as waste oil	ND	0.1	"							
Total Extractable Hydrocarbons	ND	0.1	"							
Surrogate: Pentacosane	0.0413		"	0.0504400		81.8	60-140			

LCS (1A02222-BS1)

Prepared: 01/22/10 Analyzed: 01/26/10

TEH, as #2 diesel fuel	9.41	0.1	mg/l	10.0100		94.0	60-114			
Surrogate: Pentacosane	0.0584		"	0.0504400		116	60-140			

Matrix Spike (1A02222-MS1)

Source: 10A0885-03

Prepared: 01/22/10 Analyzed: 01/26/10

TEH, as #2 diesel fuel	8.28	0.1	mg/l	11.4400	ND	72.4	70-130			
Surrogate: Pentacosane	0.0634		"	0.0576457		110	60-140			

Matrix Spike Dup (1A02222-MSD1)

Source: 10A0885-03

Prepared: 01/22/10 Analyzed: 01/26/10

TEH, as #2 diesel fuel	8.52	0.1	mg/l	11.6260	ND	73.3	70-130	2.89	20	
Surrogate: Pentacosane	0.0535		"	0.0585830		91.4	60-140			

Reference (1A02222-SRM1)

Prepared: 01/22/10 Analyzed: 01/27/10

TEH, as #2 diesel fuel	10.12	0.1	mg/l	10.0100		101	70-130			
Surrogate: Pentacosane	0.0588		"	0.0504400		117	60-140			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Base/Neutral Extractable Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2806 - 1A02609

Calibration Check (10A2806-CCV1)

Prepared & Analyzed: 01/27/10

Naphthalene	45.9		ug/l	41.1075		112	80-120			
Acenaphthylene	42.1		"	40.5000		104	80-120			
Acenaphthene	42.9		"	40.5000		106	80-120			
Fluorene	44.1		"	40.5000		109	80-120			
Phenanthrene	44.5		"	41.2492		108	80-120			
Anthracene	41.7		"	41.1278		101	80-120			
Fluoranthene	38.4		"	40.5000		94.9	80-120			
Pyrene	44.4		"	40.9658		108	80-120			
Benzo(a)anthracene	43.1		"	41.1075		105	80-120			
Chrysene	44.0		"	41.2290		107	80-120			
Indeno(1,2,3-cd)Pyrene	46.2		"	40.5000		114	80-120			
Benzo(b)Fluoranthene	41.4		"	40.6822		102	80-120			
Benzo(k)Fluoranthene	51.7		"	40.5000		128	80-120			C-17
Benzo(a)Pyrene	43.8		"	40.9658		107	80-120			
Dibenzo(a,h)anthracene	46.4		"	40.5000		115	80-120			
Benzo(g,h,i)perylene	50.3		"	41.6542		121	80-120			C-17
Surrogate: Nitrobenzene-d5	45.6		"	42.2880		108	80-120			
Surrogate: 2-Fluorobiphenyl	51.5		"	42.2640		122	80-120			C-17
Surrogate: Terphenyl-d14	46.7		"	42.5040		110	80-120			

Batch 1A02609 - 3520C B/N Cont Liq

Matrix Spike (1A02609-MS1)

Source: 10A0885-03

Prepared: 01/26/10 Analyzed: 01/27/10

Naphthalene	39.9	10	ug/l	65.6506	ND	60.8	60-140
Acenaphthylene	50.3	10	"	65.6506	ND	76.7	63-133
Acenaphthene	47.1	10	"	65.6506	ND	71.8	60-140
Fluorene	59.2	10	"	65.6506	ND	90.3	50-140
Phenanthrene	57.5	10	"	65.6506	ND	87.6	72-111
Anthracene	54.3	10	"	65.6506	ND	82.7	53-110
Fluoranthene	53.1	10	"	65.6506	ND	80.9	62-110
Pyrene	58.1	10	"	65.6506	ND	88.5	50-122
Benzo(a)anthracene	54.6	10	"	65.6506	ND	83.1	60-140
Chrysene	59.1	10	"	65.6506	ND	90.0	53-140
Indeno(1,2,3-cd)Pyrene	53.7	10	"	65.6506	ND	81.8	60-140
Benzo(b)Fluoranthene	49.8	10	"	65.6506	ND	75.9	60-140
Benzo(k)Fluoranthene	61.1	10	"	65.6506	ND	93.0	60-140
Benzo(a)Pyrene	50.2	10	"	65.6506	ND	76.5	60-140
Dibenzo(a,h)anthracene	55.1	10	"	65.6506	ND	83.9	60-140
Benzo(g,h,i)perylene	55.3	10	"	65.6506	ND	84.2	60-140
Surrogate: Nitrobenzene-d5	67.9		"	103.282		65.8	60-140
Surrogate: 2-Fluorobiphenyl	76.5		"	103.224		74.1	60-121

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Base/Neutral Extractable Compounds - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02609 - 3520C B/N Cont Liq

Matrix Spike (1A02609-MS1) Source: 10A0885-03 Prepared: 01/26/10 Analyzed: 01/27/10

Surrogate: Terphenyl-dl4	67.3	ug/l	103.810	64.8	60-140
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Matrix Spike Dup (1A02609-MSD1) Source: 10A0885-03 Prepared: 01/26/10 Analyzed: 01/27/10

Naphthalene	42.9	10	ug/l	63.2054	ND	67.9	60-140	7.23	40
Acenaphthylene	52.5	10	"	63.2054	ND	83.0	63-133	4.13	26
Acenaphthene	48.0	10	"	63.2054	ND	76.0	60-140	1.91	10.1
Fluorene	62.1	10	"	63.2054	ND	98.3	50-140	4.75	19
Phenanthrene	61.3	10	"	63.2054	ND	97.0	72-111	6.43	40
Anthracene	56.9	10	"	63.2054	ND	90.0	53-110	4.75	40
Fluoranthene	54.6	10	"	63.2054	ND	86.4	62-110	2.72	24
Pyrene	59.7	10	"	63.2054	ND	94.4	50-122	2.67	40
Benzo(a)anthracene	58.8	10	"	63.2054	ND	93.1	60-140	7.51	40
Chrysene	61.0	10	"	63.2054	ND	96.6	53-140	3.23	18
Indeno(1,2,3-cd)Pyrene	56.4	10	"	63.2054	ND	89.3	60-140	4.98	40
Benzo(b)Fluoranthene	54.6	10	"	63.2054	ND	86.4	60-140	9.20	40
Benzo(k)Fluoranthene	63.6	10	"	63.2054	ND	101	60-140	3.99	40
Benzo(a)Pyrene	53.3	10	"	63.2054	ND	84.4	60-140	5.96	19
Dibenzo(a,h)anthracene	58.3	10	"	63.2054	ND	92.2	60-140	5.64	40
Benzo(g,h,i)perylene	58.5	10	"	63.2054	ND	92.6	60-140	5.72	40
Surrogate: Nitrobenzene-d5	70.0		"	99.4357		70.4	60-140		
Surrogate: 2-Fluorobiphenyl	78.2		"	99.3792		78.7	60-121		
Surrogate: Terphenyl-d14	74.5		"	99.9436		74.5	60-140		

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2903 - 1A02521

Calibration Blank (10A2903-CCB1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0002		mg/l	0.00000						
Barium, dissolved	-0.0002		"	0.00000						
Cadmium, dissolved	-0.00007		"	0.00000						
Chromium, dissolved	-0.0001		"	0.00000						
Lead, dissolved	-0.00008		"	0.00000						
Selenium, dissolved	-0.0001		"	0.00000						
Silver, dissolved	-0.0002		"	0.00000						

Calibration Blank (10A2903-CCB2)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0002		mg/l	0.00000						
Barium, dissolved	-0.0001		"	0.00000						
Cadmium, dissolved	-0.00007		"	0.00000						
Chromium, dissolved	0.0006		"	0.00000						
Lead, dissolved	-0.00007		"	0.00000						
Selenium, dissolved	-0.0002		"	0.00000						
Silver, dissolved	-0.0002		"	0.00000						

Calibration Blank (10A2903-CCB3)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0004		mg/l	0.00000						
Barium, dissolved	-0.0001		"	0.00000						
Cadmium, dissolved	-0.00008		"	0.00000						
Chromium, dissolved	-0.0002		"	0.00000						
Lead, dissolved	-0.00007		"	0.00000						
Selenium, dissolved	-0.00009		"	0.00000						
Silver, dissolved	-0.0002		"	0.00000						

Calibration Blank (10A2903-CCB4)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0008		mg/l	0.00000						
Barium, dissolved	-0.0002		"	0.00000						
Cadmium, dissolved	-0.00007		"	0.00000						
Chromium, dissolved	-0.00005		"	0.00000						
Lead, dissolved	-0.00007		"	0.00000						
Selenium, dissolved	-0.0001		"	0.00000						
Silver, dissolved	-0.0002		"	0.00000						

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2903 - 1A02521

Calibration Check (10A2903-CCV1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0193		mg/l	0.0200000		96.4	90-110			
Barium, dissolved	0.0198		"	0.0200000		99.0	90-110			
Cadmium, dissolved	0.0202		"	0.0200000		101	90-110			
Chromium, dissolved	0.0196		"	0.0200000		97.8	90-110			
Lead, dissolved	0.0199		"	0.0200000		99.3	90-110			
Selenium, dissolved	0.0202		"	0.0200000		101	90-110			
Silver, dissolved	0.0203		"	0.0200000		101	90-110			

Calibration Check (10A2903-CCV2)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0204		mg/l	0.0200000		102	90-110			
Barium, dissolved	0.0204		"	0.0200000		102	90-110			
Cadmium, dissolved	0.0205		"	0.0200000		102	90-110			
Chromium, dissolved	0.0208		"	0.0200000		104	90-110			
Lead, dissolved	0.0200		"	0.0200000		99.9	90-110			
Selenium, dissolved	0.0211		"	0.0200000		105	90-110			
Silver, dissolved	0.0201		"	0.0200000		100	90-110			

Calibration Check (10A2903-CCV3)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0194		mg/l	0.0200000		97.1	90-110			
Barium, dissolved	0.0197		"	0.0200000		98.5	90-110			
Cadmium, dissolved	0.0201		"	0.0200000		101	90-110			
Chromium, dissolved	0.0197		"	0.0200000		98.7	90-110			
Lead, dissolved	0.0201		"	0.0200000		100	90-110			
Selenium, dissolved	0.0202		"	0.0200000		101	90-110			
Silver, dissolved	0.0201		"	0.0200000		100	90-110			

Calibration Check (10A2903-CCV4)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0199		mg/l	0.0200000		99.7	90-110			
Barium, dissolved	0.0191		"	0.0200000		95.6	90-110			
Cadmium, dissolved	0.0200		"	0.0200000		99.8	90-110			
Chromium, dissolved	0.0198		"	0.0200000		99.1	90-110			
Lead, dissolved	0.0199		"	0.0200000		99.4	90-110			
Selenium, dissolved	0.0199		"	0.0200000		99.4	90-110			
Silver, dissolved	0.0200		"	0.0200000		100	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2903 - 1A02521

High Cal Check (10A2903-HCV1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0990		mg/l	0.100000		99.0	90-110			
Barium, dissolved	0.102		"	0.100000		102	90-110			
Cadmium, dissolved	0.102		"	0.100000		102	90-110			
Chromium, dissolved	0.102		"	0.100000		102	90-110			
Lead, dissolved	0.100		"	0.100000		100	90-110			
Selenium, dissolved	0.1039		"	0.100000		104	90-110			
Silver, dissolved	0.105		"	0.100000		105	90-110			

High Cal Check (10A2903-HCV2)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.237		mg/l	0.250000		94.7	90-110			
Barium, dissolved	0.261		"	0.250000		104	90-110			
Cadmium, dissolved	0.243		"	0.250000		97.1	90-110			
Chromium, dissolved	0.248		"	0.250000		99.1	90-110			
Lead, dissolved	0.251		"	0.250000		100	90-110			
Selenium, dissolved	0.2520		"	0.250000		101	90-110			
Silver, dissolved	0.254		"	0.250000		101	90-110			

High Cal Check (10A2903-HCV3)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.493		mg/l	0.500000		98.6	90-110			
Barium, dissolved	0.516		"	0.500000		103	90-110			
Cadmium, dissolved	0.526		"	0.500000		105	90-110			
Chromium, dissolved	0.510		"	0.500000		102	90-110			
Lead, dissolved	0.506		"	0.500000		101	90-110			
Selenium, dissolved	0.5016		"	0.500000		100	90-110			
Silver, dissolved	0.519		"	0.500000		104	90-110			

Initial Cal Check (10A2903-ICV1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0487		mg/l	0.0500000		97.4	90-110			
Barium, dissolved	0.0518		"	0.0500000		104	90-110			
Cadmium, dissolved	0.0504		"	0.0500000		101	90-110			
Chromium, dissolved	0.0520		"	0.0500000		104	90-110			
Lead, dissolved	0.0493		"	0.0500000		98.7	90-110			
Selenium, dissolved	0.0510		"	0.0500000		102	90-110			
Silver, dissolved	0.0500		"	0.0500000		100	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2903 - 1A02521

Initial Cal Check (10A2903-ICV2)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0493		mg/l	0.0500000		98.6	90-110			
Barium, dissolved	0.0507		"	0.0500000		101	90-110			
Cadmium, dissolved	0.0501		"	0.0500000		100	90-110			
Chromium, dissolved	0.0512		"	0.0500000		102	90-110			
Lead, dissolved	0.0494		"	0.0500000		98.8	90-110			
Selenium, dissolved	0.0513		"	0.0500000		103	90-110			
Silver, dissolved	0.0495		"	0.0500000		99.0	90-110			

Initial Cal Check (10A2903-ICV3)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0461		mg/l	0.0500000		92.2	90-110			
Barium, dissolved	0.0470		"	0.0500000		94.1	90-110			
Cadmium, dissolved	0.0497		"	0.0500000		99.4	90-110			
Chromium, dissolved	0.0487		"	0.0500000		97.5	90-110			
Lead, dissolved	0.0498		"	0.0500000		99.5	90-110			
Selenium, dissolved	0.0493		"	0.0500000		98.6	90-110			
Silver, dissolved	0.0494		"	0.0500000		98.8	90-110			

Initial Cal Check (10A2903-ICV4)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0486		mg/l	0.0500000		97.2	90-110			
Barium, dissolved	0.0484		"	0.0500000		96.9	90-110			
Cadmium, dissolved	0.0501		"	0.0500000		100	90-110			
Chromium, dissolved	0.0490		"	0.0500000		98.0	90-110			
Lead, dissolved	0.0496		"	0.0500000		99.1	90-110			
Selenium, dissolved	0.0503		"	0.0500000		101	90-110			
Silver, dissolved	0.0499		"	0.0500000		99.8	90-110			

Low Cal Check (10A2903-LCV1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0004		mg/l	0.000500000		72.5	70-130			
Barium, dissolved	0.0004		"	0.000500000		78.5	70-130			
Cadmium, dissolved	0.0005		"	0.000500000		99.1	70-130			
Lead, dissolved	0.0005		"	0.000500000		94.9	70-130			
Silver, dissolved	0.0004		"	0.000500000		82.3	70-130			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2903 - 1A02521

Low Cal Check (10A2903-LCV2)

Prepared & Analyzed: 01/29/10

Selenium, dissolved	0.0008		mg/l	0.00100000		77.0	70-130
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Low Cal Check (10A2903-LCV3)

Prepared & Analyzed: 01/29/10

Chromium, dissolved	0.0019		mg/l	0.00200000		92.8	70-130
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Secondary Cal Check (10A2903-SCV1)

Prepared & Analyzed: 01/29/10

Arsenic, dissolved	0.0246		mg/l	0.0250000		98.4	90-110
Barium, dissolved	0.0257		"	0.0250000		103	90-110
Cadmium, dissolved	0.0257		"	0.0250000		103	90-110
Chromium, dissolved	0.0257		"	0.0250000		103	90-110
Lead, dissolved	0.0260		"	0.0250000		104	90-110
Selenium, dissolved	0.0256		"	0.0250000		102	90-110
Silver, dissolved	0.0252		"	0.0250000		101	90-110

Batch 10B0218 - 1B00205

Cal Standard (10B0218-CAL1)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00		mg/l	0.00000
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Cal Standard (10B0218-CAL2)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.000200		mg/l	0.000200000	100
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Cal Standard (10B0218-CAL3)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.000500		mg/l	0.000500000	100
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Cal Standard (10B0218-CAL4)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00100		mg/l	0.00100000	100
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

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Project Number: Ottumwa
Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B0218 - 1B00205										
Cal Standard (10B0218-CAL5)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00200		mg/l	0.00200000		100				
Cal Standard (10B0218-CAL6)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00300		mg/l	0.00300000		100				
Cal Standard (10B0218-CAL7)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.0100		mg/l	0.0100000		100				
Calibration Blank (10B0218-CCB1)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.0000260		mg/l	0.00000						
Calibration Blank (10B0218-CCB2)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	-0.00000700		mg/l	0.00000						
Calibration Blank (10B0218-CCB3)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	-0.00000300		mg/l	0.00000						
Calibration Blank (10B0218-CCB4)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	-0.0000190		mg/l	0.00000						
Calibration Blank (10B0218-CCB5)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.0000100		mg/l	0.00000						
Calibration Check (10B0218-CCV1)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00209		mg/l	0.00200000		104	80-120			
Calibration Check (10B0218-CCV2)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00209		mg/l	0.00200000		104	80-120			

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Project Manager: Jeff Pritchard

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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0218 - 1B00205

Calibration Check (10B0218-CCV3)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00206		mg/l	0.00200000	103	80-120
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Calibration Check (10B0218-CCV4)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00204		mg/l	0.00200000	102	80-120
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Calibration Check (10B0218-CCV5)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00210		mg/l	0.00200000	105	80-120
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Instrument RL Check (10B0218-CRL1)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.000268		mg/l	0.000200000	134	70-130	QS-05
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Initial Cal Blank (10B0218-ICB1)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.0000390		mg/l	0.00000		
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Initial Cal Check (10B0218-ICV1)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00202		mg/l	0.00200000	101	80-120
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Secondary Cal Check (10B0218-SCV1)

Prepared & Analyzed: 02/02/10

Mercury, dissolved	0.00207		mg/l	0.00200000	104	80-120
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Batch 1A02521 - Dissolved Metal Prep

Blank (1A02521-BLK1)

Prepared: 01/25/10 Analyzed: 01/29/10

Arsenic, dissolved	ND	0.0010	mg/l
Barium, dissolved	ND	0.0020	"
Cadmium, dissolved	ND	0.0005	"
Chromium, dissolved	ND	0.0020	"
Lead, dissolved	ND	0.0010	"
Selenium, dissolved	ND	0.0010	"
Silver, dissolved	ND	0.0010	"

Seagull Environmental Technologies
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Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02521 - Dissolved Metal Prep

LCS (1A02521-BS1)

Prepared: 01/25/10 Analyzed: 01/29/10

Arsenic, dissolved	0.0203	0.0010	mg/l	0.0200000		101	80-120			
Barium, dissolved	0.0212	0.0020	"	0.0200000		106	80-120			
Cadmium, dissolved	0.0214	0.0005	"	0.0200000		107	80-120			
Chromium, dissolved	0.0214	0.0020	"	0.0200000		107	80-120			
Lead, dissolved	0.0206	0.0010	"	0.0200000		103	80-120			
Silver, dissolved	0.0160	0.0010	"	0.0200000		80.1	80-120			

Matrix Spike (1A02521-MS1)

Source: 10A0885-03

Prepared: 01/25/10 Analyzed: 01/29/10

Arsenic, dissolved	0.0431	0.0020	mg/l	0.0400000	ND	108	75-125			
Barium, dissolved	0.120	0.0040	"	0.0400000	0.0837	91.6	75-125			
Cadmium, dissolved	0.0452	0.0010	"	0.0400000	ND	113	75-125			
Chromium, dissolved	0.0348	0.0040	"	0.0400000	ND	87.1	75-125			
Lead, dissolved	0.0440	0.0020	"	0.0400000	ND	110	75-125			
Selenium, dissolved	0.0488	0.0020	"	0.0400000	ND	122	75-125			
Silver, dissolved	0.0323	0.0020	"	0.0400000	ND	80.8	75-125			

Matrix Spike (1A02521-MS2)

Source: 10A0892-04

Prepared: 01/25/10 Analyzed: 01/29/10

Arsenic, dissolved	0.0415	0.0020	mg/l	0.0400000	ND	104	75-125			
Barium, dissolved	0.114	0.0040	"	0.0400000	0.0776	91.5	75-125			
Cadmium, dissolved	0.0450	0.0010	"	0.0400000	ND	113	75-125			
Chromium, dissolved	0.0341	0.0040	"	0.0400000	ND	85.3	75-125			
Lead, dissolved	0.0434	0.0020	"	0.0400000	ND	108	75-125			
Selenium, dissolved	0.0508	0.0020	"	0.0400000	0.0046	115	75-125			
Silver, dissolved	0.0321	0.0020	"	0.0400000	ND	80.3	75-125			

Matrix Spike Dup (1A02521-MSD1)

Source: 10A0885-03

Prepared: 01/25/10 Analyzed: 01/29/10

Arsenic, dissolved	0.0438	0.0020	mg/l	0.0400000	ND	109	75-125	1.47	20	
Barium, dissolved	0.124	0.0040	"	0.0400000	0.0837	101	75-125	3.22	20	
Cadmium, dissolved	0.0449	0.0010	"	0.0400000	ND	112	75-125	0.775	20	
Chromium, dissolved	0.0346	0.0040	"	0.0400000	ND	86.6	75-125	0.628	20	
Lead, dissolved	0.0433	0.0020	"	0.0400000	ND	108	75-125	1.53	20	
Selenium, dissolved	0.0499	0.0020	"	0.0400000	ND	125	75-125	2.10	20	
Silver, dissolved	0.0315	0.0020	"	0.0400000	ND	78.7	75-125	2.68	10	

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Dissolved Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02521 - Dissolved Metal Prep

Matrix Spike Dup (1A02521-MSD2)		Source: 10A0892-04		Prepared: 01/25/10 Analyzed: 01/29/10						
Arsenic, dissolved	0.0409	0.0020	mg/l	0.0400000	ND	102	75-125	1.25	20	
Barium, dissolved	0.111	0.0040	"	0.0400000	0.0776	82.6	75-125	3.14	20	
Cadmium, dissolved	0.0442	0.0010	"	0.0400000	ND	111	75-125	1.81	20	
Chromium, dissolved	0.0340	0.0040	"	0.0400000	ND	85.0	75-125	0.353	20	
Lead, dissolved	0.0433	0.0020	"	0.0400000	ND	108	75-125	0.178	20	
Selenium, dissolved	0.0504	0.0020	"	0.0400000	0.0046	114	75-125	0.780	20	
Silver, dissolved	0.0315	0.0020	"	0.0400000	ND	78.7	75-125	2.00	10	

Batch 1B00204 - EPA 7470A Hg Water

Blank (1B00204-BLK1)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	ND	0.00050	mg/l							
LCS (1B00204-BS1)				Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00274	0.00050	mg/l	0.00250000		110	76-124			
Matrix Spike (1B00204-MS1)		Source: 10A0885-03		Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00268	0.00050	mg/l	0.00250000	0.0000550	105	62-140			
Matrix Spike (1B00204-MS2)		Source: 10A0892-04		Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00244	0.00050	mg/l	0.00250000	0.0000390	96.0	62-140			
Matrix Spike Dup (1B00204-MSD1)		Source: 10A0885-03		Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00256	0.00050	mg/l	0.00250000	0.0000550	100	62-140	4.58	15	
Matrix Spike Dup (1B00204-MSD2)		Source: 10A0892-04		Prepared & Analyzed: 02/02/10						
Mercury, dissolved	0.00258	0.00050	mg/l	0.00250000	0.0000390	102	62-140	5.58	15	

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10A2211 - 1A02209										
Cal Standard (10A2211-CAL1)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.00		mg/l	0.00000						
Cal Standard (10A2211-CAL2)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.000200		mg/l	0.000200000		100				
Cal Standard (10A2211-CAL3)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.000500		mg/l	0.000500000		100				
Cal Standard (10A2211-CAL4)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.00100		mg/l	0.00100000		100				
Cal Standard (10A2211-CAL5)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.00200		mg/l	0.00200000		100				
Cal Standard (10A2211-CAL6)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.00300		mg/l	0.00300000		100				
Cal Standard (10A2211-CAL7)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.0100		mg/l	0.0100000		100				
Calibration Blank (10A2211-CCB1)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.0000410		mg/l	0.00000						
Calibration Blank (10A2211-CCB2)				Prepared & Analyzed: 01/22/10						
Mercury, total	-0.0000100		mg/l	0.00000						
Calibration Blank (10A2211-CCB3)				Prepared & Analyzed: 01/22/10						
Mercury, total	0.0000320		mg/l	0.00000						

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2211 - 1A02209

Calibration Blank (10A2211-CCB4) Prepared & Analyzed: 01/22/10

Mercury, total	-0.0000180		mg/l	0.00000						
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Calibration Check (10A2211-CCV1) Prepared & Analyzed: 01/22/10

Mercury, total	0.00198		mg/l	0.00200000	99.0	80-120				
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Calibration Check (10A2211-CCV2) Prepared & Analyzed: 01/22/10

Mercury, total	0.00202		mg/l	0.00200000	101	80-120				
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Calibration Check (10A2211-CCV3) Prepared & Analyzed: 01/22/10

Mercury, total	0.00206		mg/l	0.00200000	103	80-120				
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Calibration Check (10A2211-CCV4) Prepared & Analyzed: 01/22/10

Mercury, total	0.00200		mg/l	0.00200000	100	80-120				
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Instrument RL Check (10A2211-CRL1) Prepared & Analyzed: 01/22/10

Mercury, total	0.000186		mg/l	0.000200000	93.0	70-130				
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Initial Cal Blank (10A2211-ICB1) Prepared & Analyzed: 01/22/10

Mercury, total	0.0000480		mg/l	0.00000						
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Initial Cal Check (10A2211-ICV1) Prepared & Analyzed: 01/22/10

Mercury, total	0.00201		mg/l	0.00200000	100	80-120				
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Secondary Cal Check (10A2211-SCV1) Prepared & Analyzed: 01/22/10

Mercury, total	0.00199		mg/l	0.00200000	99.5	80-120				
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Batch 10B0103 - 1A02918

Calibration Blank (10B0103-CCB1) Prepared & Analyzed: 02/01/10

Arsenic, total	-0.0002		mg/l	0.00000						
Barium, total	-0.00004		"	0.00000						
Cadmium, total	0.00009		"	0.00000						
Chromium, total	-0.00004		"	0.00000						
Lead, total	-0.000002		"	0.00000						
Selenium, total	0.00003		"	0.00000						
Silver, total	-0.000005		"	0.00000						

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

Calibration Blank (10B0103-CCB2)

Prepared & Analyzed: 02/01/10

Arsenic, total	-0.0002		mg/l	0.00000						
Barium, total	-0.00004		"	0.00000						
Cadmium, total	0.0001		"	0.00000						
Chromium, total	-0.0004		"	0.00000						
Lead, total	0.000004		"	0.00000						
Selenium, total	0.0001		"	0.00000						
Silver, total	-0.000001		"	0.00000						

Calibration Blank (10B0103-CCB3)

Prepared & Analyzed: 02/01/10

Arsenic, total	-0.0004		mg/l	0.00000						
Barium, total	-0.00003		"	0.00000						
Cadmium, total	0.0001		"	0.00000						
Chromium, total	0.000003		"	0.00000						
Lead, total	-0.000001		"	0.00000						
Selenium, total	0.0001		"	0.00000						
Silver, total	0.0000009		"	0.00000						

Calibration Blank (10B0103-CCB4)

Prepared & Analyzed: 02/01/10

Arsenic, total	-0.00008		mg/l	0.00000						
Barium, total	-0.00004		"	0.00000						
Cadmium, total	0.00009		"	0.00000						
Chromium, total	0.0004		"	0.00000						
Lead, total	-0.000002		"	0.00000						
Selenium, total	0.0002		"	0.00000						
Silver, total	0.000002		"	0.00000						

Calibration Blank (10B0103-CCB5)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0001		mg/l	0.00000						
Barium, total	-0.00004		"	0.00000						
Cadmium, total	0.00009		"	0.00000						
Chromium, total	0.000005		"	0.00000						
Lead, total	0.000002		"	0.00000						
Selenium, total	0.0002		"	0.00000						
Silver, total	0.0000006		"	0.00000						

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

Calibration Blank (10B0103-CCB6)

Prepared & Analyzed: 02/01/10

Arsenic, total	-0.0003		mg/l	0.00000						
Barium, total	-0.00003		"	0.00000						
Cadmium, total	0.00008		"	0.00000						
Chromium, total	-0.0005		"	0.00000						
Lead, total	-0.000001		"	0.00000						
Selenium, total	0.0002		"	0.00000						
Silver, total	0.000002		"	0.00000						

Calibration Check (10B0103-CCV1)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0204		mg/l	0.0200000		102	90-110			
Barium, total	0.0200		"	0.0200000		100	90-110			
Cadmium, total	0.0200		"	0.0200000		99.8	90-110			
Chromium, total	0.0202		"	0.0200000		101	90-110			
Lead, total	0.0199		"	0.0200000		99.6	90-110			
Selenium, total	0.0195		"	0.0200000		97.4	90-110			
Silver, total	0.0198		"	0.0200000		99.2	90-110			

Calibration Check (10B0103-CCV2)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0199		mg/l	0.0200000		99.7	90-110			
Barium, total	0.0206		"	0.0200000		103	90-110			
Cadmium, total	0.0194		"	0.0200000		97.2	90-110			
Chromium, total	0.0196		"	0.0200000		97.8	90-110			
Lead, total	0.0201		"	0.0200000		100	90-110			
Selenium, total	0.0203		"	0.0200000		102	90-110			
Silver, total	0.0197		"	0.0200000		98.3	90-110			

Calibration Check (10B0103-CCV3)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0199		mg/l	0.0200000		99.4	90-110			
Barium, total	0.0204		"	0.0200000		102	90-110			
Cadmium, total	0.0198		"	0.0200000		98.8	90-110			
Chromium, total	0.0197		"	0.0200000		98.3	90-110			
Lead, total	0.0202		"	0.0200000		101	90-110			
Selenium, total	0.0206		"	0.0200000		103	90-110			
Silver, total	0.0197		"	0.0200000		98.4	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

Calibration Check (10B0103-CCV4)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0201		mg/l	0.0200000		100	90-110			
Barium, total	0.0202		"	0.0200000		101	90-110			
Cadmium, total	0.0196		"	0.0200000		97.8	90-110			
Chromium, total	0.0200		"	0.0200000		100	90-110			
Lead, total	0.0200		"	0.0200000		100	90-110			
Selenium, total	0.0204		"	0.0200000		102	90-110			
Silver, total	0.0195		"	0.0200000		97.7	90-110			

Calibration Check (10B0103-CCV5)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0190		mg/l	0.0200000		95.2	90-110			
Barium, total	0.0197		"	0.0200000		98.5	90-110			
Cadmium, total	0.0199		"	0.0200000		99.4	90-110			
Chromium, total	0.0193		"	0.0200000		96.5	90-110			
Lead, total	0.0199		"	0.0200000		99.4	90-110			
Selenium, total	0.0203		"	0.0200000		101	90-110			
Silver, total	0.0195		"	0.0200000		97.6	90-110			

Calibration Check (10B0103-CCV6)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0197		mg/l	0.0200000		98.4	90-110			
Barium, total	0.0196		"	0.0200000		98.0	90-110			
Cadmium, total	0.0197		"	0.0200000		98.5	90-110			
Chromium, total	0.0189		"	0.0200000		94.6	90-110			
Lead, total	0.0199		"	0.0200000		99.5	90-110			
Selenium, total	0.0202		"	0.0200000		101	90-110			
Silver, total	0.0195		"	0.0200000		97.7	90-110			

High Cal Check (10B0103-HCV1)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.101		mg/l	0.100000		101	90-110			
Barium, total	0.103		"	0.100000		103	90-110			
Cadmium, total	0.0999		"	0.100000		99.9	90-110			
Chromium, total	0.101		"	0.100000		101	90-110			
Lead, total	0.0997		"	0.100000		99.7	90-110			
Selenium, total	0.0996		"	0.100000		99.6	90-110			
Silver, total	0.0997		"	0.100000		99.7	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

High Cal Check (10B0103-HCV2)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.245		mg/l	0.250000		98.0	90-110			
Barium, total	0.246		"	0.250000		98.2	90-110			
Cadmium, total	0.242		"	0.250000		96.6	90-110			
Chromium, total	0.247		"	0.250000		98.8	90-110			
Lead, total	0.245		"	0.250000		98.2	90-110			
Selenium, total	0.2453		"	0.250000		98.1	90-110			
Silver, total	0.244		"	0.250000		97.4	90-110			

High Cal Check (10B0103-HCV3)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.480		mg/l	0.500000		95.9	90-110			
Barium, total	0.483		"	0.500000		96.7	90-110			
Cadmium, total	0.471		"	0.500000		94.1	90-110			
Chromium, total	0.493		"	0.500000		98.6	90-110			
Lead, total	0.484		"	0.500000		96.8	90-110			
Selenium, total	0.4776		"	0.500000		95.5	90-110			
Silver, total	0.480		"	0.500000		96.0	90-110			

Initial Cal Check (10B0103-ICV1)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0506		mg/l	0.0500000		101	90-110			
Barium, total	0.0502		"	0.0500000		100	90-110			
Cadmium, total	0.0494		"	0.0500000		98.7	90-110			
Chromium, total	0.0505		"	0.0500000		101	90-110			
Lead, total	0.0499		"	0.0500000		99.8	90-110			
Selenium, total	0.0494		"	0.0500000		98.8	90-110			
Silver, total	0.0498		"	0.0500000		99.6	90-110			

Initial Cal Check (10B0103-ICV2)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0497		mg/l	0.0500000		99.4	90-110			
Barium, total	0.0510		"	0.0500000		102	90-110			
Cadmium, total	0.0482		"	0.0500000		96.4	90-110			
Chromium, total	0.0491		"	0.0500000		98.2	90-110			
Lead, total	0.0498		"	0.0500000		99.6	90-110			
Selenium, total	0.0498		"	0.0500000		99.5	90-110			
Silver, total	0.0491		"	0.0500000		98.2	90-110			

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

Initial Cal Check (10B0103-ICV3)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0499		mg/l	0.0500000		99.7	90-110			
Barium, total	0.0504		"	0.0500000		101	90-110			
Cadmium, total	0.0488		"	0.0500000		97.6	90-110			
Chromium, total	0.0483		"	0.0500000		96.5	90-110			
Lead, total	0.0501		"	0.0500000		100	90-110			
Selenium, total	0.0507		"	0.0500000		101	90-110			
Silver, total	0.0489		"	0.0500000		97.8	90-110			

Initial Cal Check (10B0103-ICV4)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0505		mg/l	0.0500000		101	90-110			
Barium, total	0.0504		"	0.0500000		101	90-110			
Cadmium, total	0.0488		"	0.0500000		97.7	90-110			
Chromium, total	0.0498		"	0.0500000		99.5	90-110			
Lead, total	0.0499		"	0.0500000		99.7	90-110			
Selenium, total	0.0507		"	0.0500000		101	90-110			
Silver, total	0.0493		"	0.0500000		98.7	90-110			

Initial Cal Check (10B0103-ICV5)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0490		mg/l	0.0500000		97.9	90-110			
Barium, total	0.0487		"	0.0500000		97.3	90-110			
Cadmium, total	0.0494		"	0.0500000		98.9	90-110			
Chromium, total	0.0480		"	0.0500000		95.9	90-110			
Lead, total	0.0498		"	0.0500000		99.6	90-110			
Selenium, total	0.0501		"	0.0500000		100	90-110			
Silver, total	0.0489		"	0.0500000		97.9	90-110			

Initial Cal Check (10B0103-ICV6)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0487		mg/l	0.0500000		97.4	90-110			
Barium, total	0.0481		"	0.0500000		96.3	90-110			
Cadmium, total	0.0491		"	0.0500000		98.3	90-110			
Chromium, total	0.0478		"	0.0500000		95.6	90-110			
Lead, total	0.0495		"	0.0500000		99.0	90-110			
Selenium, total	0.0495		"	0.0500000		99.0	90-110			
Silver, total	0.0484		"	0.0500000		96.9	90-110			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 10B0103 - 1A02918										
Low Cal Check (10B0103-LCV1)				Prepared & Analyzed: 02/01/10						
Barium, total	0.0004		mg/l	0.000500000		76.9	70-130			
Cadmium, total	0.0006		"	0.000500000		117	70-130			
Silver, total	0.0005		"	0.000500000		98.3	70-130			
Low Cal Check (10B0103-LCV2)				Prepared & Analyzed: 02/01/10						
Lead, total	0.0009		mg/l	0.00100000		93.2	70-130			
Selenium, total	0.0009		"	0.00100000		89.8	70-130			
Low Cal Check (10B0103-LCV3)				Prepared & Analyzed: 02/01/10						
Arsenic, total	0.0023		mg/l	0.00200000		116	70-130			
Low Cal Check (10B0103-LCV4)				Prepared & Analyzed: 02/01/10						
Barium, total	0.0004		mg/l	0.000500000		75.9	70-130			
Cadmium, total	0.0006		"	0.000500000		115	70-130			
Silver, total	0.0005		"	0.000500000		95.8	70-130			
Low Cal Check (10B0103-LCV5)				Prepared & Analyzed: 02/01/10						
Lead, total	0.0009		mg/l	0.00100000		91.6	70-130			
Selenium, total	0.0011		"	0.00100000		110	70-130			
Low Cal Check (10B0103-LCV6)				Prepared & Analyzed: 02/01/10						
Arsenic, total	0.0019		mg/l	0.00200000		97.3	70-130			
Low Cal Check (10B0103-LCV7)				Prepared & Analyzed: 02/01/10						
Chromium, total	0.0048		mg/l	0.00500000		95.9	70-130			
Low Cal Check (10B0103-LCV8)				Prepared & Analyzed: 02/01/10						
Chromium, total	0.0045		mg/l	0.00500000		89.7	70-130			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10B0103 - 1A02918

Secondary Cal Check (10B0103-SCV1)

Prepared & Analyzed: 02/01/10

Arsenic, total	0.0266		mg/l	0.0250000		106	90-110			
Barium, total	0.0261		"	0.0250000		104	90-110			
Cadmium, total	0.0259		"	0.0250000		103	90-110			
Chromium, total	0.0260		"	0.0250000		104	90-110			
Lead, total	0.0260		"	0.0250000		104	90-110			
Selenium, total	0.0255		"	0.0250000		102	90-110			
Silver, total	0.0257		"	0.0250000		103	90-110			

Batch 1A02209 - EPA 245.1 Hg Dig

Blank (1A02209-BLK1)

Prepared & Analyzed: 01/22/10

Mercury, total	ND	0.00050	mg/l							
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LCS (1A02209-BS1)

Prepared & Analyzed: 01/22/10

Mercury, total	0.00250	0.00050	mg/l	0.00250000		100	73-125			
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Matrix Spike (1A02209-MS1)

Source: 10A0885-03

Prepared & Analyzed: 01/22/10

Mercury, total	0.00411	0.00050	mg/l	0.00250000	0.000690	137	60-138			
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Matrix Spike (1A02209-MS2)

Source: 10A0892-04

Prepared & Analyzed: 01/22/10

Mercury, total	0.00337	0.00050	mg/l	0.00250000	0.000248	125	60-138			
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Matrix Spike Dup (1A02209-MSD1)

Source: 10A0885-03

Prepared & Analyzed: 01/22/10

Mercury, total	0.00391	0.00050	mg/l	0.00250000	0.000690	129	60-138	4.99	21	
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Matrix Spike Dup (1A02209-MSD2)

Source: 10A0892-04

Prepared & Analyzed: 01/22/10

Mercury, total	0.00331	0.00050	mg/l	0.00250000	0.000248	122	60-138	1.80	21	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02733 - EPA 3010A Total ICP

Blank (1A02733-BLK1)

Prepared: 01/27/10 Analyzed: 02/01/10

Arsenic, total	ND	0.0040	mg/l
Barium, total	ND	0.0040	"
Cadmium, total	ND	0.0010	"
Chromium, total	ND	0.0100	"
Lead, total	ND	0.0040	"
Selenium, total	ND	0.0040	"
Silver, total	ND	0.0040	"

LCS (1A02733-BS1)

Prepared: 01/27/10 Analyzed: 02/01/10

Arsenic, total	0.206	0.0040	mg/l	0.200000	103	80-120
Barium, total	0.206	0.0040	"	0.200000	103	80-120
Cadmium, total	0.199	0.0010	"	0.200000	99.3	80-120
Chromium, total	0.204	0.0100	"	0.200000	102	80-120
Lead, total	0.201	0.0040	"	0.200000	101	80-120
Selenium, total	0.1970	0.0040	"	0.200000	98.5	80-120
Silver, total	0.194	0.0040	"	0.200000	96.8	80-120

Matrix Spike (1A02733-MS1)

Source: 10A0885-03

Prepared: 01/27/10 Analyzed: 02/01/10

Arsenic, total	0.285	0.100	mg/l	0.200000	0.0810	102	75-125
Barium, total	2.18	0.100	"	0.200000	1.95	114	75-125
Cadmium, total	0.225	0.0250	"	0.200000	0.0211	102	75-125
Chromium, total	1.17	0.250	"	0.200000	0.858	154	75-125
Lead, total	0.650	0.100	"	0.200000	0.436	107	75-125
Selenium, total	0.1962	0.100	"	0.200000	0.0185	88.8	75-125
Silver, total	0.195	0.100	"	0.200000	ND	97.4	75-125

QM-4X

Matrix Spike Dup (1A02733-MSD1)

Source: 10A0885-03

Prepared: 01/27/10 Analyzed: 02/01/10

Arsenic, total	0.302	0.100	mg/l	0.200000	0.0810	111	75-125	5.64	20
Barium, total	2.16	0.100	"	0.200000	1.95	102	75-125	1.06	20
Cadmium, total	0.226	0.0250	"	0.200000	0.0211	103	75-125	0.816	20
Chromium, total	1.17	0.250	"	0.200000	0.858	155	75-125	0.225	20
Lead, total	0.652	0.100	"	0.200000	0.436	108	75-125	0.337	20
Selenium, total	0.1970	0.100	"	0.200000	0.0185	89.3	75-125	0.420	20
Silver, total	0.196	0.100	"	0.200000	ND	97.9	75-125	0.456	20

QM-4X

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Determination of Total Metals - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1A02733 - EPA 3010A Total ICP

Post Spike (1A02733-PS1)

Source: 10A0885-03

Prepared: 01/27/10 Analyzed: 02/01/10

Arsenic, total	1.16		mg/l	1.00000	0.0810	108	80-120			
Barium, total	2.97		"	1.00000	1.95	102	80-120			
Cadmium, total	1.01		"	1.00000	0.0211	99.0	80-120			
Chromium, total	2.04		"	1.00000	0.858	118	80-120			
Lead, total	1.49		"	1.00000	0.436	105	80-120			
Selenium, total	1.048		"	1.00000	0.0185	103	80-120			
Silver, total	0.958		"	1.00000	-0.00007	95.8	80-120			

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
<i>200.8 in Drink Wtr</i>	Copper, total	IA-NT
	Lead, total	IA-NT
<i>200.8 in Water</i>	Thallium, total	IA-NT
<i>EPA 200.8 in Water</i>	Antimony, total	IA-NT
	Arsenic, total	IA-NT
	Beryllium, total	IA-NT
	Cadmium, total	IA-NT
	Chromium, total	IA-NT
	Copper, total	IA-NT
	Lead, total	IA-NT
	Nickel, total	IA-NT
	Selenium, total	IA-NT
	Silver, total	IA-NT
	Zinc, total	IA-NT
<i>EPA 245.1 in Water</i>	Mercury, total	IA-NT
<i>EPA 524.2 in Water</i>	Vinyl Chloride	IA-NT
	1,1-Dichloroethylene	IA-NT
	Dichloromethane	IA-NT
	trans-1,2-Dichloroethylene	IA-NT
	cis-1,2-Dichloroethylene	IA-NT
	Chloroform	IA-NT
	1,1,1-Trichloroethane	IA-NT
	Carbon Tetrachloride	IA-NT
	Benzene	IA-NT
	1,2-Dichloroethane	IA-NT
	Trichloroethylene	IA-NT
	1,2-Dichloropropane	IA-NT
	Bromodichloromethane	IA-NT
	Toluene	IA-NT
	1,1,2-Trichloroethane	IA-NT
	Tetrachloroethylene	IA-NT
	Chlorodibromomethane	IA-NT
	Monochlorobenzene	IA-NT
	Ethylbenzene	IA-NT
	Xylenes (total)	IA-NT
	Styrene	IA-NT
	Bromoform	IA-NT
	Total Trihalomethanes (TTHM)	IA-NT
	o-Dichlorobenzene	IA-NT

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record.
This analytical report must be reproduced in its entirety.

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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
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EPA 6020A in Water

p-Dichlorobenzene IA-NT
1,2,4-Trichlorobenzene IA-NT

Antimony, total IA-NT
Arsenic, total IA-NT
Barium, total IA-NT
Beryllium, total IA-NT
Cadmium, total IA-NT
Chromium, total IA-NT
Cobalt, total IA-NT
Copper, total IA-NT
Lead, total IA-NT
Nickel, total IA-NT
Selenium, total IA-NT
Silver, total IA-NT
Thallium, total IA-NT
Vanadium, total IA-NT
Zinc, total IA-NT

EPA 7470A in Water

Mercury, dissolved IA-NT,KS-NT,NELAC
Mercury, total IA-NT,KS-NT,NELAC
Mercury (TCLP) IA-NT,NELAC,KS-NT

EPA 8260B in Water

Chloromethane IA-NT,KS-NT,NELAC
Vinyl Chloride IA-NT,KS-NT,NELAC
Bromomethane IA-NT,KS-NT,NELAC
Chloroethane IA-NT,KS-NT,NELAC
1,1-Dichloroethylene IA-NT,KS-NT,NELAC
Acetone IA-NT,KS-NT,NELAC
Carbon Disulfide IA-NT,KS-NT,NELAC
Methylene Chloride IA-NT,KS-NT,NELAC
trans-1,2-Dichloroethylene IA-NT,KS-NT,NELAC
Methyl-t-butyl Ether (MTBE) IA-NT,KS-NT,NELAC
1,1-Dichloroethane IA-NT,KS-NT,NELAC
cis-1,2-Dichloroethylene IA-NT
2-Butanone (MEK) IA-NT,KS-NT,NELAC
Chloroform IA-NT,KS-NT,NELAC
1,1,1-Trichloroethane IA-NT,KS-NT,NELAC
Carbon Tetrachloride IA-NT,KS-NT,NELAC
Benzene IA-NT,KS-NT,NELAC
1,2-Dichloroethane IA-NT,KS-NT,NELAC
Trichloroethylene IA-NT,KS-NT,NELAC
1,2-Dichloropropane IA-NT,KS-NT,NELAC
Bromodichloromethane IA-NT,KS-NT,NELAC
cis-1,3-Dichloropropene IA-NT,KS-NT,NELAC
4-Methyl-2-pentanone (MIBK) IA-NT,KS-NT,NELAC
Toluene IA-NT,KS-NT,NELAC
trans-1,3-Dichloropropene IA-NT,KS-NT,NELAC
1,1,2-Trichloroethane IA-NT,KS-NT,NELAC

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Tetrachloroethylene	IA-NT,KS-NT,NELAC
2-Hexanone (MBK)	IA-NT,KS-NT,NELAC
Dibromochloromethane	IA-NT,KS-NT,NELAC
Chlorobenzene	IA-NT,KS-NT,NELAC
Ethylbenzene	IA-NT,KS-NT,NELAC
Xylenes, total	IA-NT,KS-NT,NELAC
Bromoform	IA-NT,KS-NT,NELAC
1,1,2,2-Tetrachloroethane	IA-NT,KS-NT,NELAC
1,3-Dichlorobenzene	IA-NT,KS-NT,NELAC
1,4-Dichlorobenzene	IA-NT,KS-NT,NELAC
1,2-Dichlorobenzene	IA-NT,KS-NT,NELAC
Naphthalene	KS-NT,NELAC

EPA 8270C in Water

Naphthalene	IA-NT,KS-NT,NELAC
Acenaphthylene	IA-NT,KS-NT,NELAC
Acenaphthene	IA-NT,KS-NT,NELAC
Fluorene	IA-NT,KS-NT,NELAC
Phenanthrene	IA-NT,KS-NT,NELAC
Anthracene	IA-NT,KS-NT,NELAC
Fluoranthene	IA-NT,KS-NT,NELAC
Pyrene	IA-NT,KS-NT,NELAC
Benzo(a)anthracene	IA-NT,KS-NT,NELAC
Chrysene	IA-NT,KS-NT,NELAC
Indeno(1,2,3-cd)Pyrene	IA-NT,KS-NT,NELAC
Benzo(b)Fluoranthene	IA-NT,KS-NT,NELAC
Benzo(k)Fluoranthene	IA-NT,KS-NT,NELAC
Benzo(a)Pyrene	IA-NT,KS-NT,NELAC
Dibenzo(a,h)anthracene	IA-NT,KS-NT,NELAC
Benzo(g,h,i)perylene	IA-NT,KS-NT,NELAC

Iowa OA-2 in Water

Total Extractable Hydrocarbons	IA-NT
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SM 3112B in Water

Mercury, total	IA-NT,KS-NT,NELAC
Mercury, total	IA-NT,KS-NT,NELAC

Code	Certifying Authority	Certificate Number	Expires
IA-NT	Iowa Department of Natural Resources	095	02/01/2010
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

Notes and Definitions

S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.
QS-05	The spike recovery for this QC sample exceeded established acceptance limits.
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.
QC-08	Sample was originally analyzed within hold time. However, it was determined that positive interference was contributing to the sample result. The sample was reanalyzed outside of the recommended hold time.
QB-04	The method blank contains analyte at a concentration above the MRL.
C-17	The CCV recovery was outside established QC acceptance limits.
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

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Water
Project Number: Ottumwa
Project Manager: Jeff Pritchard

Reported
02/04/10 09:54

A handwritten signature in black ink that reads "Sue Thompson".

Sue Thompson
Project Manager I

28 January 2010

Jeff Pritchard
Seagull Environmental Technologies
11905 Gillette St.
Overland Park, KS 66213

RE: Waverly - Air
Waverly

Enclosed are the results of analyses for samples received by the laboratory on 01/23/10 13:00. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-4-SG-8'	10A0964-01	Air	01/20/10 11:30	01/23/10 13:00
B-5-SG-8'	10A0964-02	Air	01/20/10 11:45	01/23/10 13:00
B-8-SG-8'	10A0964-03	Air	01/20/10 12:05	01/23/10 13:00
B-9-SG-8'	10A0964-04	Air	01/20/10 12:20	01/23/10 13:00
B-2-SG-5.5'	10A0964-05	Air	01/20/10 10:25	01/23/10 13:00

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

B-4-SG-8'
10A0964-01 (Air)

Date Sampled: 1/20/2010 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Permanent Gases

O-04

Methane	ND	20.0	mg/m ³ Air	1	1A02532	01/25/10	01/25/10	ASTM D1945	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

B-5-SG-8'
10A0964-02 (Air)

Date Sampled: 1/20/2010 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Permanent Gases

O-04

Methane	5960	133	mg/m ³ Air	6.66	1A02532	01/25/10	01/25/10	ASTM D1945	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

B-8-SG-8'
10A0964-03 (Air)

Date Sampled: 1/20/2010 12:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Permanent Gases

O-04

Methane	33300	533	mg/m ³ Air	26.66	1A02532	01/25/10	01/25/10	ASTM D1945	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

B-9-SG-8'
10A0964-04 (Air)

Date Sampled: 1/20/2010 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Permanent Gases

O-04

Methane	166000	1060	mg/m ³ Air	52.91	1A02532	01/25/10	01/25/10	ASTM D1945	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

B-2-SG-5.5'
10A0964-05 (Air)

Date Sampled: 1/20/2010 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Keystone Laboratories, Inc. - Newton

Determination of Permanent Gases

O-04

Methane	69.4	20.0	mg/m ³ Air	1	1A02532	01/25/10	01/25/10	ASTM D1945	
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Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

Determination of Permanent Gases - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 10A2513 - 1A02532

Calibration Check (10A2513-CCV1)

Prepared & Analyzed: 01/25/10

Methane	106.0		mg/m ³ Air	122.859		86.3	70-130
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Calibration Check (10A2513-CCV2)

Prepared & Analyzed: 01/25/10

Methane	93.41		mg/m ³ Air	122.859		76.0	70-130
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Batch 1A02532 - Perm Gases

Blank (1A02532-BLK1)

Prepared & Analyzed: 01/25/10

Methane	ND	20.0	mg/m ³ Air
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LCS (1A02532-BS1)

Prepared & Analyzed: 01/25/10

Methane	113.6		mg/m ³ Air	122.800		92.5	52-132
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Duplicate (1A02532-DUP1)

Source: 10A0964-05

Prepared & Analyzed: 01/25/10

Methane	166100	1060	mg/m ³ Air	69.39			22
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Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
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Code	Certifying Authority	Certificate Number	Expires
IA-NT	Iowa Department of Natural Resources	095	02/01/2010
KS-NT	Kansas Department of Health and Environment	E-10287	07/31/2010
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2010

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.

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

Seagull Environmental Technologies
11905 Gillette St.
Overland Park KS, 66213

Project: Waverly - Air
Project Number: Waverly
Project Manager: Jeff Pritchard

Reported
01/28/10 12:50

Sue Thompson

Sue Thompson
Project Manager I

APPENDIX G

BROWNFIELDS PROPERTY PROFILE FORM



United States
ENVIRONMENTAL PROTECTION AGENCY
Washington, DC 20460

Form Approved
OMB Number No. 2050-0192
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

Public reporting burden for this collection of information is estimated to average 1.50 hours per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Environmental Protection Agency, Office of Environmental Information, Code 2822T, Washington, DC 20460 and to the Paperwork Reduction Project, Office of Management and Budget, Washington, DC 20503. DO NOT RETURN your form to either of these addresses. Send your completed form to the address provided by the issuing office.

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs):

City of Waverly

2. Cooperative Agreement Number (contract number for TBAs):

EP-S7-09-01

3. What type of cooperative agreement funding is being used for this property?

- ☐ Assessment ☐ Section 128(a) – State and Tribal Response
☐ Revolving Loan Fund ☒ TBA (EPA Regions Only)
☐ Cleanup

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- ☐ Hazardous Substance ☐ Petroleum ☐ Both

5a. Indicate if this form is the initial or Updated Form:

- ☒ Initial Form ☒ Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

Not known

PROPERTY BACKGROUND INFORMATION

6. Property Name: Waverly Yard Waste Site

7a. Street Address: 1301 8th Street SE

7b. City: Waverly

7c. County: Bremer 7d. State: IA

7e. Zip code: 50677

8. Size (in acres): 15.00

9. Parcel Number(s):

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box):

Date of Enrollment: ID Number (if applicable): ☐ Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION (EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)

11a. Latitude
(use 00.000000 decimal
degree format):
42.712141

11b. Longitude
(use -000.000000 decimal
degree format):
-96.45905

11c. Horizontal Collection Method:

GPS (Pseudo Range) Precise Position

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station):

Center of a Facility or Station

11f. Horizontal Reference Datum (Choose one):

- ☐ NAD27-North American Datum of 1927 ☒ WGS84-World Geodetic System of 1984

- ☐ NAD83-North American Datum of 1983

PART II- ENVIRONMENTAL ACTIVITIES

ENVIRONMENTAL ASSESSMENT INFORMATION (mandatory for Assessment Cooperative Agreements, State & Tribal Property-Specific Assessments, and TBAs; as available for Cleanup and RLF cooperative agreement recipients; CA = Cooperative Agreement)

Table A – Environmental Assessment Activity (If there are multiple assessments, please use a separate line for each assessment)

[illegible]

12. Indicate whether cleanup is required: ☐ Yes ☒ No ☐ Unknown

CONTAMINANTS & MEDIA AFFECTED INFORMATION *(mandatory for all cooperative agreement types)*

Table B - Contaminants and Media Affected (check all that apply):

Contaminants			
Class of Contaminant	REC*	Found	Cleaned Up
Petroleum/Petroleum Products	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controlled Substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCBs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PAHs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Contaminants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Contaminants	<input type="checkbox"/>		
Unknown	<input type="checkbox"/>		

*REC = Recognized Environmental Conditions

Media		
Media	Affected	Cleaned Up
Soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air	<input type="checkbox"/>	<input type="checkbox"/>
Surface Water	<input type="checkbox"/>	<input type="checkbox"/>
Ground Water	<input type="checkbox"/>	<input type="checkbox"/>
Drinking Water	<input type="checkbox"/>	<input type="checkbox"/>
Sediments	<input type="checkbox"/>	<input type="checkbox"/>
No Media Affected	<input type="checkbox"/>	
Unknown	<input type="checkbox"/>	

ENVIRONMENTAL CLEANUP INFORMATION *(mandatory for Cleanup and RLF)*

Cooperative Agreements and State & Tribal Property-Specific Cleanups; as available for Assessment Cooperative Agreements and TBAs)

13. Cleanup Activity Start Date: **14. Cleanup Activity Completion Date:** **15. Acres Cleaned Up:**

16. Date No Further Action/Cleanup Completion Document Issued

(If the property was not enrolled in a state or tribal program, leave blank):

Date: _____

Date: _____

17. Number of Cleanup Jobs Leveraged:

18. If EPA Brownfields funding was used, indicate the type and amount (If any non-EPA funding was used, fill out Table C):

Type	Amount
Cleanup Cooperative Agreement	
	Date R/F

☐ RLF Loan _____ Loan Signed _____

Type	Amount
<input type="checkbox"/> RLF Subgrant	

☐ Section 128(a) State/Tribal Cooperative Agreement _____

Table C - Environmental Cleanup Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal (exclude \$128(a) funds)	Local Gov't	Private/ Other		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

PART II- ENVIRONMENTAL ACTIVITIES (continued)

INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: ☐ Yes ☒ No ☐ Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

- ☐ Proprietary Controls (e.g., easements, covenants) ☐ Governmental Controls (e.g., zoning, building codes)
- ☐ Informational Devices (e.g., state registries, deed notices) ☐ Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Address of Data Source (URL if available):

19c. Indicate whether Institutional Controls in place: ☐ Yes ☒ No Date: _____

20a. Indicate whether Engineering Controls are required: ☐ Yes ☒ No ☐ Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

- ☐ Cover Technologies (e.g., Capping) ☐ Immobilization Process (e.g., Encapsulation, In-Situ Solidification) ☐ Engineered Barriers (e.g., Slurry Walls, Sheet)
- ☐ Security (e.g., Guard, Fences) ☐ Other _____

Additional Engineering Controls Information:

Address of Data Source (URL if available):

20c. Indicate whether Engineering Controls in place: ☐ Yes ☒ No Date: _____

REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: _____ 22. Redevelopment Completion Date: _____

Table D- Redevelopment Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal	Local Gov't	Private/ Other		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

23. Number of Redevelopment Jobs Leveraged: _____

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential)).

- ☐ Multi-story building
- ☒ Greenspace _____ 15 acres _____ sq. ft. ☐ Commercial _____ acres _____ sq. ft.
- ☐ Industrial _____ acres _____ sq. ft. ☐ Residential _____ acres _____ sq. ft.

PART II- ENVIRONMENTAL ACTIVITIES (continued)

ANECDOTAL PROPERTY INFORMATION (as available for all cooperative agreement types)

26. Property Highlights:

PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: ☒ Yes ☐ No 28. Indicate whether video is available: ☐ Yes ☒ No

PART III- ADDITIONAL PROPERTY INFORMATION

PROPERTY HISTORY INFORMATION

29. Property Description / History / Past Ownership:

The site is currently utilized by the City of Waverly as a yard waste disposal facility. The site was formerly used as a solid waste landfill and shooting range.

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential)):

☐ Multi-story building

☐ Greenspace _____ acres _____ sq. ft. ☐ Commercial _____ acres _____ sq. ft.

☐ Residential _____ acres _____ sq. ft. ☒ Industrial 15.00 acres _____ sq. ft.

OWNERSHIP & SUPERFUND LIABILITY (Mandatory for Cleanup and RLF Cooperative Agreements)

31a. Ownership Entity:

☒ Government (Tribal, State, Local) ☐ Private

32a. During the life of the cooperative agreement, did ownership change?

☐ Yes ☒ No

31b. Current Owner:

City of Waverly, Iowa

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

☐ Yes ☐ No ☐ Unknown

PART IV- APPROVALS

33. Cooperative Agreement Recipient Project Manager

Name (please print):

Signature

Date:

City of Waverly, Iowa - Mike Cherry

34. US EPA Regional Representative

Name (please print):

Signature

Date:

☐ Industrial

☐ Residential

25. Actual Acreage(s) and Type(s) of Greenspace Created:
